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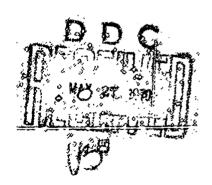
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VERIFICATION TESTING OF CONJUGATE STRUCTURE

FINAL REPORT

E DALE THOMPSON MARTIN MARIETTA COMPORATION

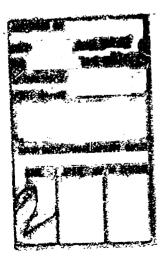


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VERIFICATION TESTING OF CONJUGATE STRUCTURE

FINAL REPORT

E. Dale Thompson

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FOREWORD

This Final Report is submitted in accordance with the requirements of Contract F04611-68-C-0055, Verification Testing of the Conjugate Tankage. The report is submitted in one volume and describes all test work that was planned and accomplished.

The verification testing program was funded by the Air Force Rocket Propulsion Laboratory, Edwards Air Force Base, under the direction of Project Officer Mr. C. H. Richard/RPRPT.

This Technical Report has been reviewed and is approved.

CHARLES H. RICHARD Project Engineer

ABSTRACT

The conjugate structure was built for the Air Force Rocket Propulsion Laboratory, Edwards Air Force Base, by North American Aviation Inc., Los Angeles Division. The conjugate structure consisted of a forward skirt, forward dome, forward barrel, common dome, aft barrel, aft cone and an aft skirt. The forward and aft barrel sections were made of titanium roll diffusion bonded truss core panels.

The conjugate structure was delivered to the Martin Marietta Corporation, Denver Division for structural testing to demonstrate its ability to withstand design conditions by subjection to limit loads and limit internal tank pressures.

Martin Marietta Corporation Receiving Inspection identified structural discrepancies which brought about a change in the test contract. Instead of the originally planned three test conditions, the conjugate structure was subjected to a detailed inspection and a structural repair operation, and the test portion was modified to include five test conditions.

The first two of these test conditions were completed. A visual and radiographic inspection, made after the completion of the second test, identified seven areas of structural failures. One failure, a 42.5 in. long crack in the inner weld of the aft tank barrel to the lower Y-ring circumferential weld joint, was severe enough to prohibit continued testing. The tank barrel sections, made up of roll-diffusion-bonded-truss-core, successfully carried the design limit loads and internal tank pressures associated with the two test conditions.

Most of the structural failures occurred in areas of circumferential weld joints that were fabricated with mismatch and questionable weld capabilities. Internal tank pressure loads across these mismatch areas caused high bending stresses which contributed to the development of cracks:

This report presents test loads, descriptions of the test setups, test results, and all test data from the two completed test conditions. A failure analysis of the structural failures is included. The failure analysis investigations concluded that the failure point of the 42.5 in. long crack was approximately at its center. It was a brittle failure resulting from the presence of an oxygenrich, stabilized alpha layer on the parent metal adjacent to the weld, supplemented by residual restraint and mismatch in the area. It was also concluded that the stabilized alpha layer was present before the welding was accomplished.

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SECTION I

INTRODUCTION

The original conjugate tank structural test program consisted of three test conditions. However, when structural discrepancies were found during a receiving inspection made by Martin Marietta, the program was revised to include a more detailed inspection with provisions for a structural repair operation prior to structural testing. The test program, as modified, was expanded to five test conditions.

A description of the detailed inspection and repair operation is found in Section II of this leport. A complete description of the detailed inspection is found in Results of Inspection of Conjugate Tankage and Repair Proposal; published by Martin Marietta Corporation, Technical Report FRPL-TR-69-160 (Final), June 1969. and presented in Appendix I of this report.

As revised, the five planned test conditions were:

Condition 1, Tank Barrel Compression Test;

Condition 2, Hydrostatic Test, 65 psig (Top Dome Pressure);

Condition 3, Stage O Boost Test;

Condition 4, Stage II Engine Boost Test;

Condition 5, Hydrostatic Test of Two Tank Configurations.

These five tests were to demonstrate structural capability of the test article through its ability to withstand applied static limit loads and tank internal limit pressures. The tests also provided data which are used to evaluate the behavior of the roll-diffusion-bonded-truss-core structure, and the structural integrity of the overall test article.

Only the Condition-1 and -2 tests were completed. A visual and radiographic inspection after the condition-2 test identified seven areas of structural failure, one of which was severe enough to cause termination of testing. Section V of this report contains a failure analysis of the areas of structural failure.

The Test Information Digest and Procedure for Verification Testing of Conjugate Structure, published by Martin Marietta Corporation, September 1969, describes in detail the manner in which the structural test program was conducted. Test loads and pressures, and descriptions of the test setups for the test conditions that were run are presented in this report. Results and all data from the completed tests are also given, and data pertinent in describing the behavior of the test structure are presented in figures.

SECTION II

PRETEST INSPECTION AND REPAIR

The contract specified that the test specimen be inspected after receipt. The inspection was to provide a basis for the decision on conjugate structure test worthiness, and to determine if any in-transit damage had occurred. The inspection showed no in-transit damage but did reveal a number of structural deficiencies, primarily in welds, creating doubt about the structure's ability to withstand the planned test loads. The results of the inspection were presented to the Air Force during an oral review at Edwards Air Force Base, 1 August 1968. At that time, Martin Marietta asked for direction to undertake a more vigorous inspection, which would include cutting sample plugs from selected welds, evaluating the defects, and determining a repair plan. All work on the contract was stopped until Air Force direction to proceed with the requested course of action was given.

The full description of the inspections and repair proposals is found in Results of Inspection of Conjugate Tankage and Repair Proposal, FRPL-TR-69-160 (Final), published by Martin Marietta Corporation, June 1969, and included as Appendix I of this report. The document also included a proposed change in the test conditions.

Repairs consisted of a structural shim modification at the aft skirt to the tank interface, an increase in the size of the skirt Hi-Shear rivets, and the weld-repairing of: (1) local weld discrepancies, (2) cracks in the inside skin of the forward barrel, and (3) sample plug holes taken for examination of the weld beads.

The most significant defects were the severe mismatch of the common dome and forward dome at the Y-frame to the dome weld. The common dome, worst of the two, contained many weld cracks. Repair cost of these areas was prohibitive, and the repair plan decided upon essentially negated the common dome until the last of five scheduled tests. The lack of confidence in the pressure vessel capability, based on weld strengths and mismatch discontinuity stresses, led to the addition of two structural tests to provide a maximum amount of data on the structural capability of the weld-diffusion-bonded-truss-core structure, with minimum cost and minimum risk of catastrophic failure.

SECTION III

CONDITION 1 - TANK BARREL COMPRESSION TEST

1. TEST OBJECTIVE

The Condition-1 test was run to provide data on the behavior of the roll-diffusion-bonded-truss-core structure of the tank barrels under a compressive load. The design compressive load applied during this test was equivalent to an axial load of 269,600 1b at the aft end of the aft tank barrel.

The test was run with the conjugate tankage in essentially a one-tank configuration. This was necessary because the conjugate tank common dome had unplugged weld specimen sample holes. Tank pressure was 10 psig (top dome pressure), which provided the minimum acceptable pressure required for barrel stabilization and also resulted in a low failure probability for the tank as a pressure vessel.

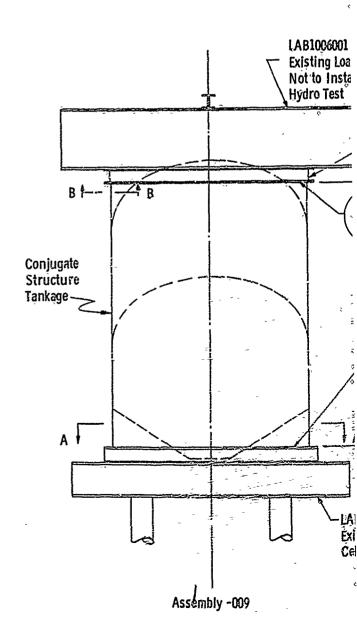
2. TEST SETUP

The test specimen was installed in Cell E-1 of the Vertical Test Facility shown in Fig. 1, 2 and 3. The aft interface of the test specimen (Sta 478) was attached to the base fixture with 40 NAS1004 bolts. A loading head was attached to the forward skirt in the same manner as the joint at the base. The loading head had axial load and moment applied to it through four axial load lines (arrangements of hydraulic jack, load cell and steel linkage), deriving moment by differential axial loads. The required shear load was also applied to the loading head.

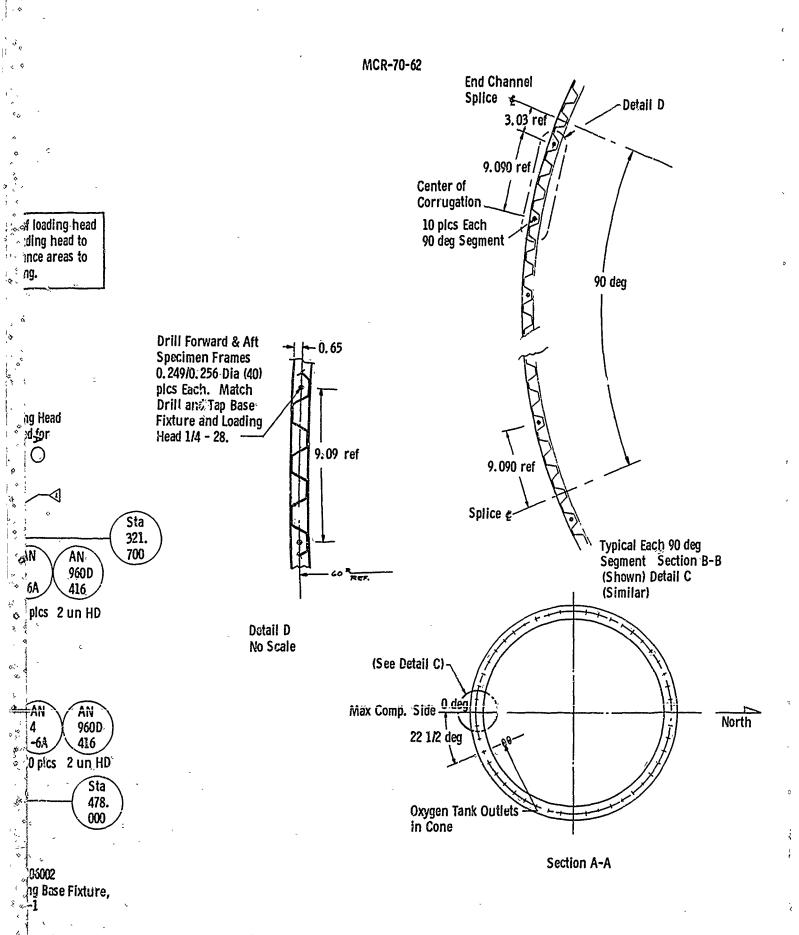
The loading head was weighed, and its dead weight was counter-balanced during instrumentation zero and test loading. This counterbalancing was accomplished by attaching a hydraulic jack, load cell, and structural steel straps to the loading head and a fixed overhead beam arrangement. The load in the counterbalance hydraulic jack was maintained at the prescribed constant load during the test.

The test specimen was filled with water and pressurized with compressed air. The plumbing associated with filling and pressurizing the tanks is shown in Fig. 4.

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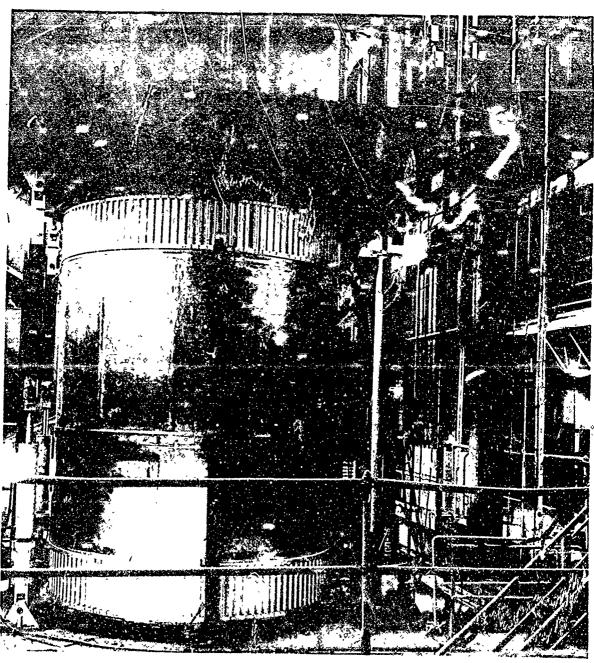


Figure 2 Photograph of Test Setup (Side View)

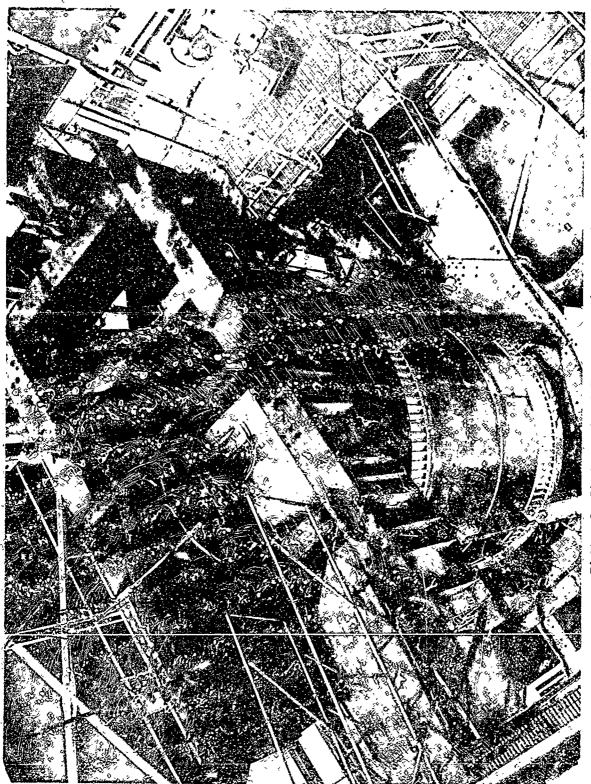
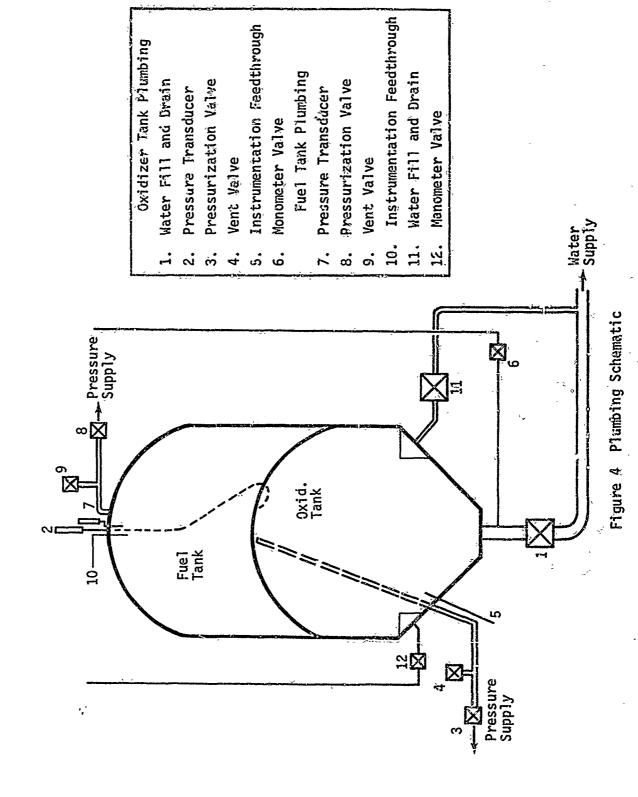


Figure 3 Photograph of Test Setup (Top View)



TEST LOADS

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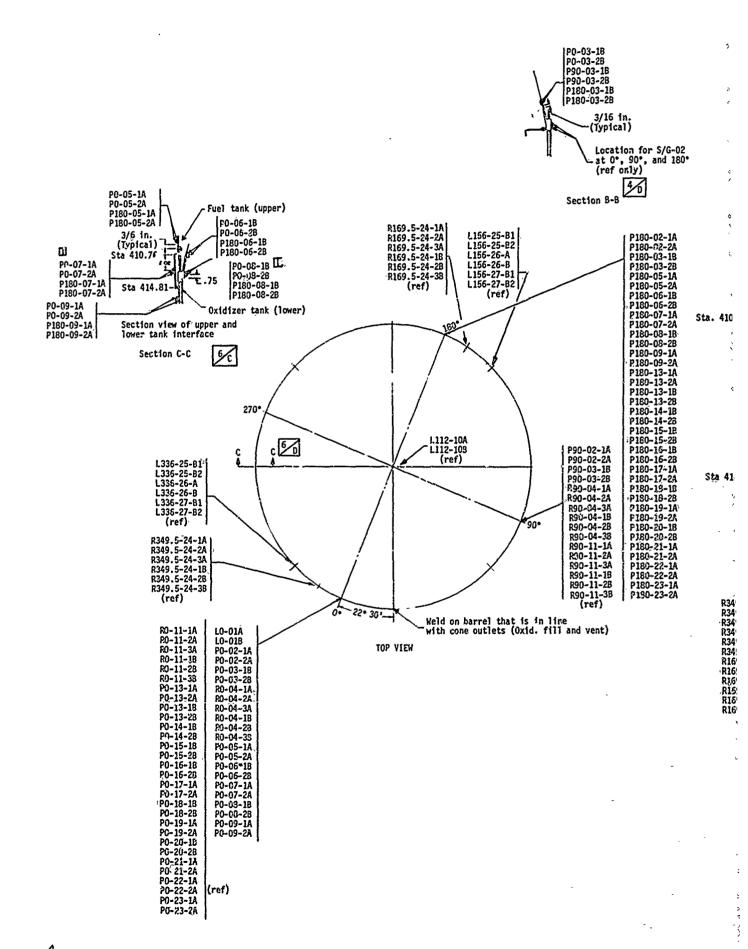
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The test specimen was filled (Sta 316) with 62,000 lb of water and pressurized to 10 psig (top dome pressure). Maximum loads applied at Sta 321.7 were 222,700 lb (axial), 1,589,000 in.-1b (bending moment), and 24,450 lb (shear). These loads were applied simultaneously in increments to 20, 40, 60, 80, 90, 95 and 100% of the maximum loads, while the test specimen was pressurized to 10 psig. Instrumentation data were obtained at each increment of load.

4. INSTRUMENTATION

- a. Strain Gages. The installation of 138 electrical resistance strain gages on the specimen is shown in Fig. 5. The individual strain gage output was recorded on magnetic tape by a low-level analog-to-digital data logging system. The tape was then used in an IBM 360/30 computer to provide a stress tabulation. During the test, data from each strain gage were recorded independent of other gages. Rosette gage data were reduced to principal strains and directions after the test completion.
- b. Deflection Transducers. Seventeen deflection transducers were installed on the test specimen. The effects of the linear displacement on the electrical transducers were recorded by a digital printout system, and the following locations and directions were recorded:
 - 1) Forward Y-ring, Sta 345.2; four points, 90 deg apart around the tank circumference, reading radially outward;
 - Intermediate Y-ring, Sta 413.8; four points, 90 deg apart around the tank circumference, reading radially outward;
 - 3) Aft Y-ring, Sta 455.61; four points, 90 deg apart around the tank circumference, reading radially outward:
 - 4) Four points, 90 deg apart around tank circumference, reading axially relative to the forward Yring as to the aft Y-ring;
 - 5) Engine mounting ring, approximately Sta 485, reading axially.

Deflection locations are shown in Fig. 6.



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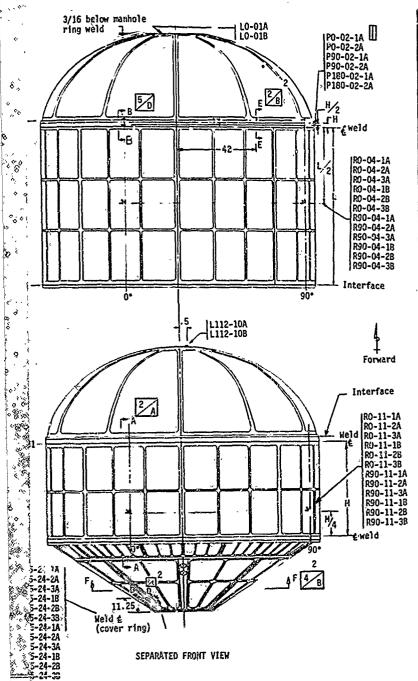
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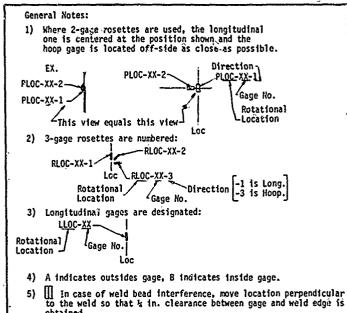
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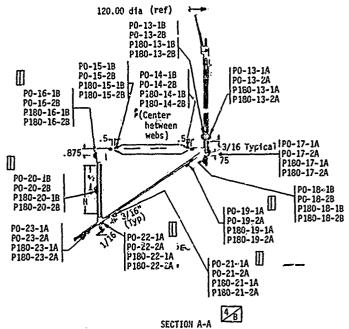
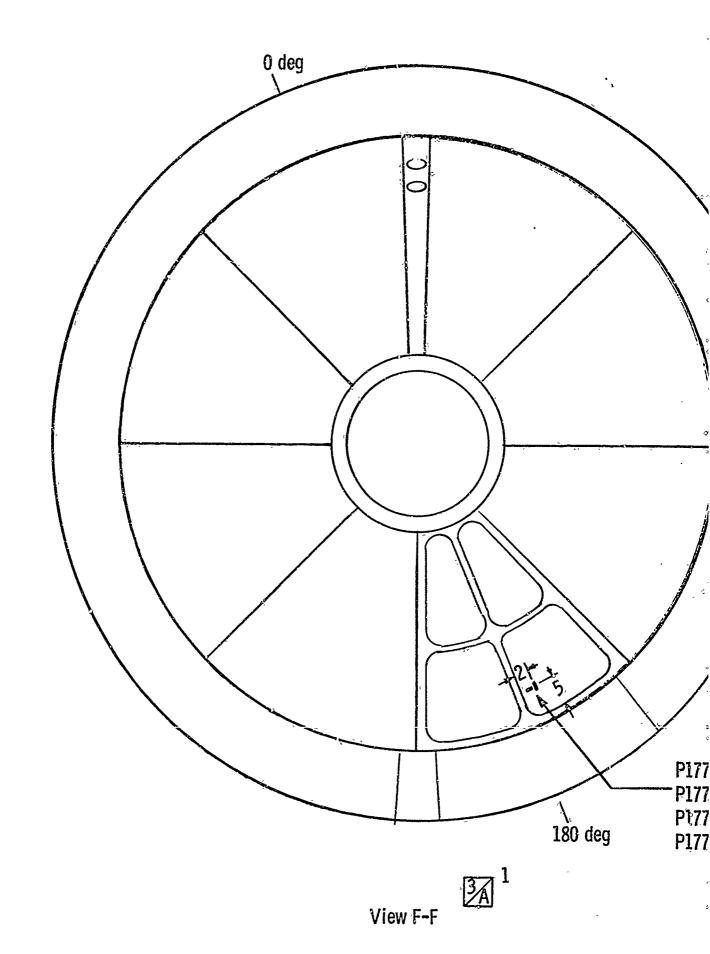
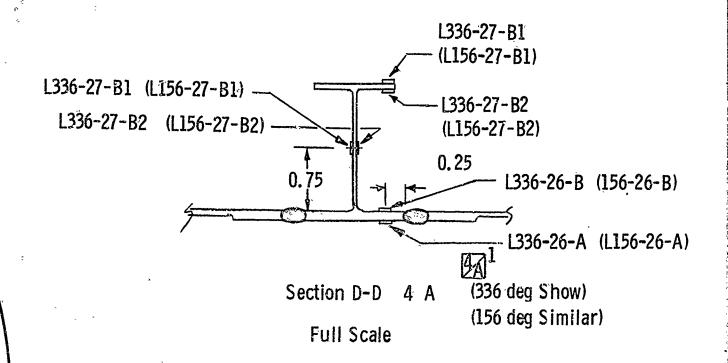


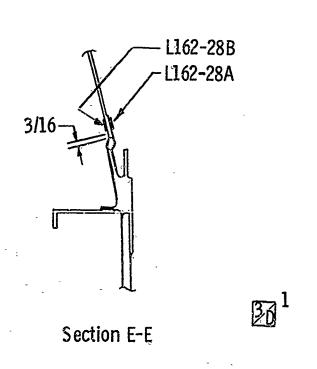
Fig. 5 Strain Gage Locations Conjugate Structure



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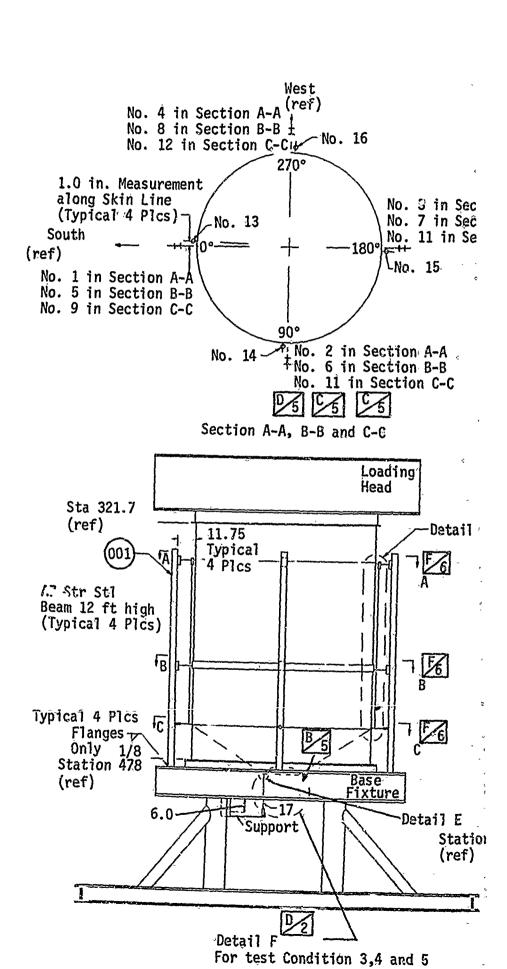
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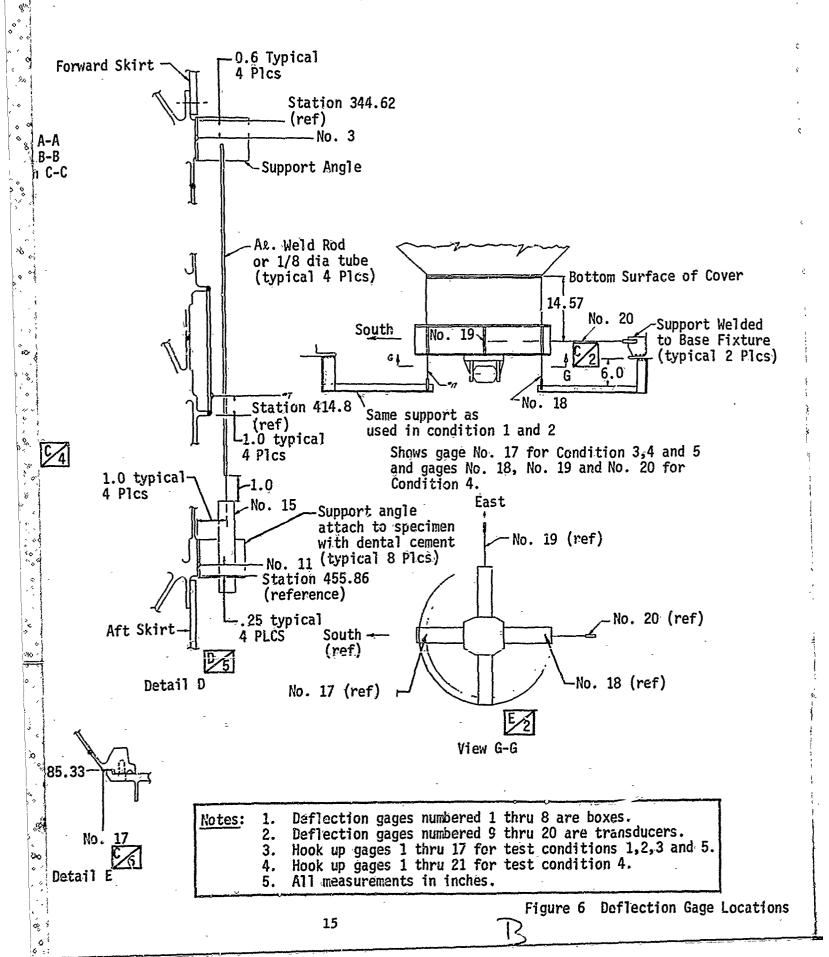
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Figure 5 Strain Gage Locations

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c. Pressure Transducers. The upper dome pressure in each tank was measured by two pressure transducers and a Bourdon gage. There were a total of six pressure readouts for the conjugate structure, three for each tank. One transducer from each upper dome was electrically connected to a Bristol Indicator located in the test control room. These were the primary pressure readouts during the tests. The Bourdon gage pressure readouts, also located in the test control room, were back up measurements to that registered by the pressure transducer. The other pressure transducer, measuring top dome pressure, was electrically connected to a millivolt data logger that recorded indicated values for conversion into true pressure values. The recorded pressure-values data can be found in the stress tabulations presented in the Condition-1 section of the appendix.

5. TEST DATA

Test data (i.e., stress levels, pressure readings and deflection readings) were recorded at 5 psig and 10 psig top dome pressure. Loads were applied with the tank pressure at 10 psig. Test data were recorded at load increments of 20, 40, 60, 80, 90, and 100% of the maximum load for this test condition.

A copy of the complete stress tabulation for the Condition-I test is presented in Appendix II. Raw deflections are shown in Table I.

Table I Deflections Recorded During Condition-1 Test

Deflection gage	Tanks	nks Test increments									
number	full	5 psig	10 psig	20%	40%	60%	80%	90%	95%	100%	
1	-0.03	-0.03	-0.03	-0.05	-0.08	-0.10	-0.13	-0.13	-0.13	-0.15	
2	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	÷0.03	-0.03	-0.03	-0.03	
3	-0.03	-0.03	-0.03	-0.03	-0.02	-0.01	0.00	0.00	0.00	0.00	
4	-0.04	-0.05	-0.04	-0.04	-0.04	-0.04	-0.02	-0.02	-0.02	-0.03	
5	-0.03	-0.04	-0.04	-0.06	-0.06	-0.08	-0.10	-0.09	-0.12	-0.11	
6	-0.04	-0.05	-0.08	-0.0õ	-0.07	-0.06	-0.06	-0.05	-0.05	-0.06	
7	-0.03	-0.04	-0.05	-0.05	-0.05	-0.04	-0:04	-0.04	-0.04	-0.04	
8	-0.04	-0.05	-0.05	-0.05	-0.06	∸U'Ù1	-0:07	-0.06	-0:05	-0:07	
9	<i>+</i> 0.011	+0.017	+0.023	+0.019	+0:016	+0.011	+0.008	+0.005	+0.065	+0.003	
10	+0.010	+0.016	+0.022	+0.023	+0.024	+0.024	+0.025	+0.025	+0.026	+0.025	
11	+0.010	₹9.011	+0.017	+0.018	+0.020	+0.021	+0.023	+0.023	+0.024	+0.924	
12	+0:007	+0.015	+0.021	+0.021	+0.023	+0.023	+0.023	10.023	+0.024	+0.024	
13	-0.009	-0.003	-0.001	-0.012	-0.024	-0.037	c0.049	-0.055	-0.059	~0.061	
14	-0.077	-0.005	-0.003	-0.006	-0.003	-0.012	-0.018	-0.020	-0.022	-0.023	
15	-0.005	-0.009	-0.006	-0.010	-0.012	-0.013	-0.017	-0.019	-0.020	-0.021	
16	-0.009	-0.009	-0.005	-0.011	-0.017	-0.021	-0.026	-0.030	-0.032	-0.033	
. 17	-0.01C	-0.040	-0.058	-0.060	-0.064	-0.065	-0,069	-0.067	-0.070	-0.069	

KOTE: 1. Accuracy: ±0.01 on 0.00 readings and ±0.001 on 0.000 readings.

Minus sign indicates specimen deflection is toward the gage. Plus sign indicates specimen deflection is away from the gage. (Refer to Fig. 6 for deflection gage locations.) An example of how to read the stress tabulation is as follows:

Assume one wants to know the stresses recorded by strain gage P0-13-1A. (Computer tabulation runs show gage numbers without hyphens; Appendix II.) This strain gage registers longitudinal strain, and is located at approximately Sta 453 on the aft end of the aft barrel on the exterior of the specimen. (Figure 5 presents strain gage locations and numbers.) Using the strain gage number PO-13-1A, enter the tabulation and find PO-13-1A. The lefthand column labeled TEST identifies 0000, which is instrumentation zero, 1000 is tanks full of water, 1005 is 5 psig, 1010 is 10 psig. Next column labeled COND identifies 0020, 0040, 0060, 0080, 0090, 0095 and 0100, which are percents of applied loads. number 0021 identifies a set reading at 20% after being at the 100% level. The HR/MN/SEC column identifies the time of recording. Notice that each gage is scanned approximately five times at each data recording. If one is interested in PO-13-1A at 20% load, the reading would be approximately 5550 psi compression (minus sign after numerals indicates compression). The tabulation also contains Pl and P2, which are pressure recordings taken at the apex of the common dome (P1) and at the apex of the forward dome (P2). Under the column labeled P2, a tabulation reading of 1018.00 means the top dome pressure was 10.18 psig less instrumentation zero when the recording was made.

TEST RESULTS

Data on the behavior of the roll-diffusion-bonded-trusscore structure of the tank barrel were recorded from the individual legs of rosette strain gages. The rosette strain gages are identified as: RO-4-1A, 2A and 3A; RO-4-1B, 2B and 3B; R90-4-1A, 2A and 3A; R90-4-1B, 2B and 3B; R0-11-1A, 2A and 3A; R0-11-1B, 2B and 3B; R90-11-1A, ZA and 3A; and R90-11-1B, 2B and 3B. The RO-4 and R90-4 gages were located at Sta 378.22, which is the center of the upper tank barrel panel. RO-11 and R90-11 gages were located at Sta 444.67, which is approximately 10 in. forward of the aft end of the aft barrel panel. RO gages were located on the maximum compression axis and the R90 gages were 90 deg off from the maximum compression axis. Plots of the test stresses recorded from gages RO-4-1A and 3A, RO-4-1B and 3B, R9O-4-1A and 3A, R90-4-1B and 3D, R0-11-1A and 3A, R0-11-1B and 3B, R90-11-1A and 3A, and R90-11-1B and 3B are shown in Fig. 7 through 14. Also shown in these figures are plots of predicted analytical stresses for the gages.

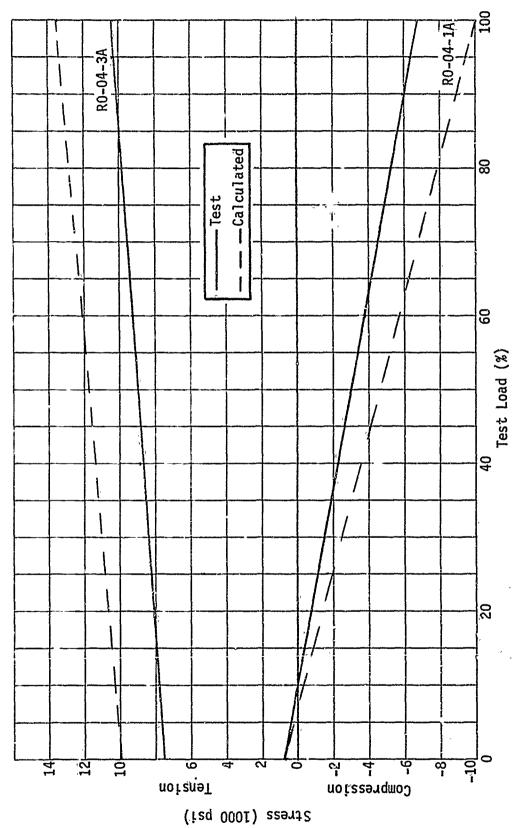
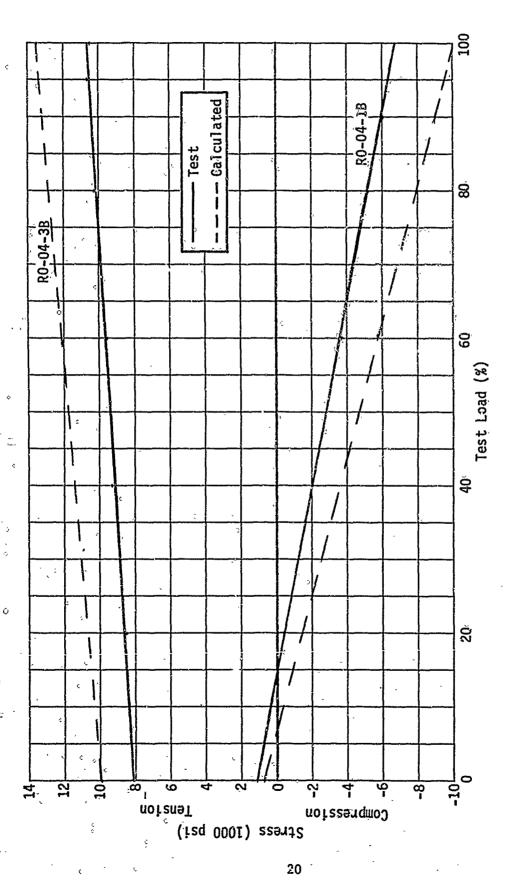
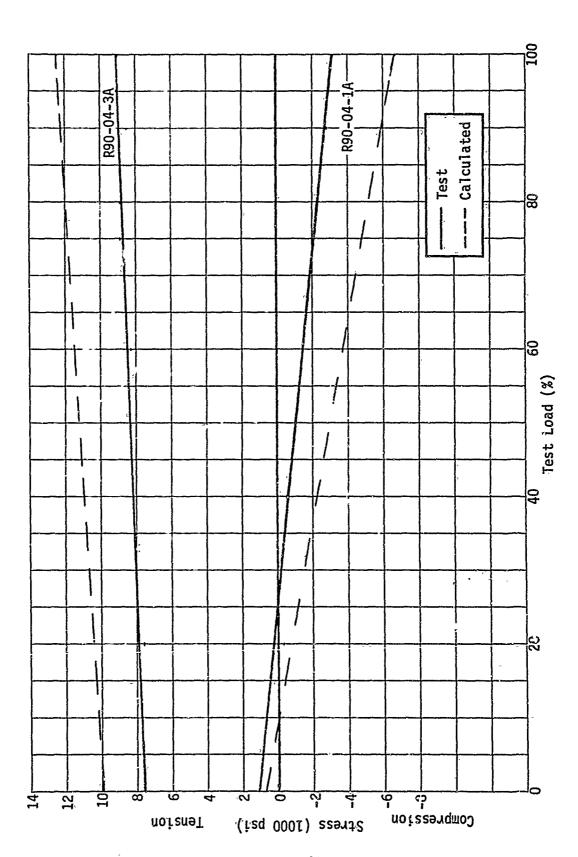


Figure 7 Condition 1 - Stress Plots of RO-04-1A and 3A



Condition 1 - Stress Plots of RO-04-1B and 3B Figure 8



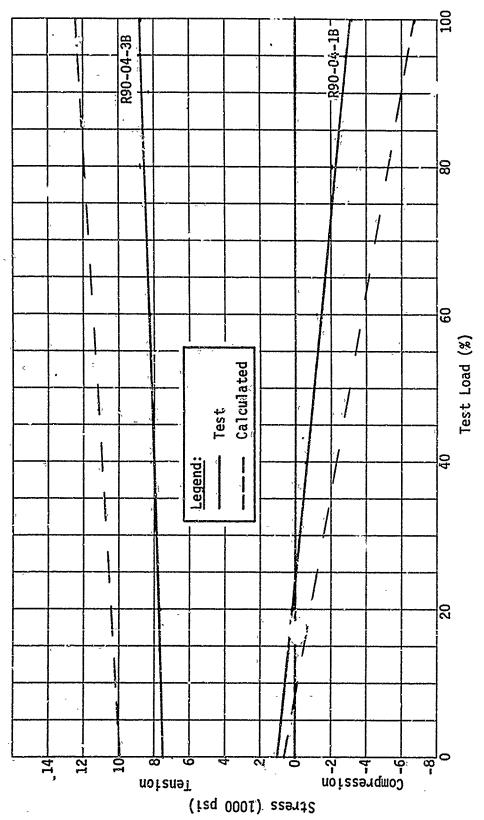
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Figure 9 Condition 1 - Stress Plots of R90-04-1A and 3A



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Figure 10 Condition 1 - Stress Plots of R90-04-18 and 38

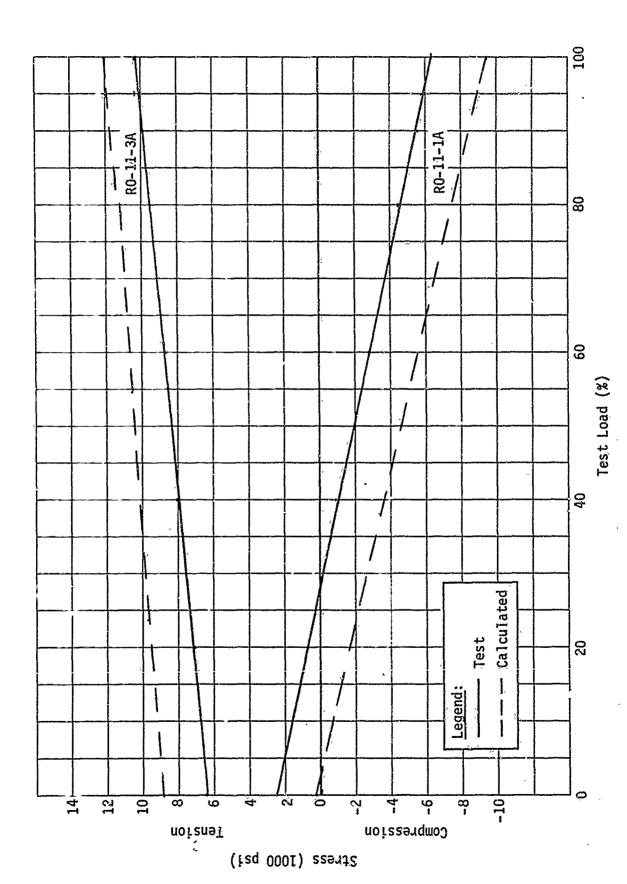


Figure 11 Condition 1 - Stress Plots of RO-11-1A and 3A

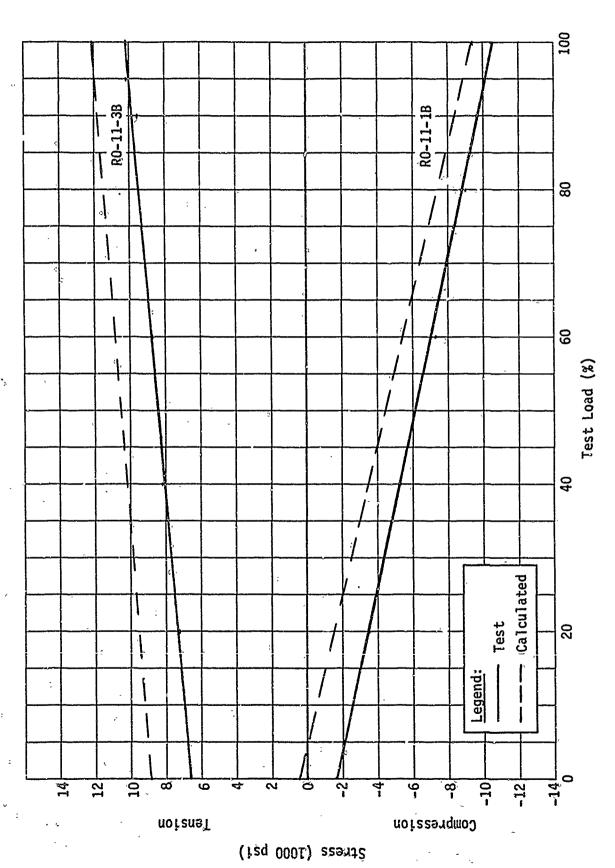


Figure 12 Condition 1 - Stress Plots of RO-11-1B and 3B

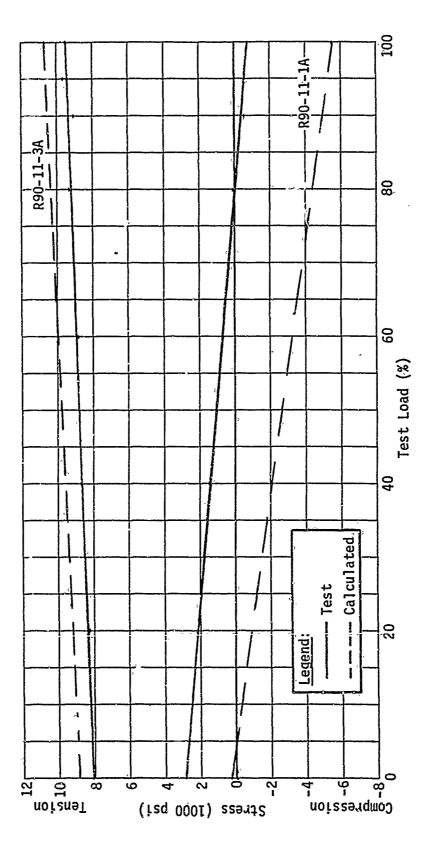


Figure 13 Condition 1 - Stress Plots of R90-11-1A and 3A

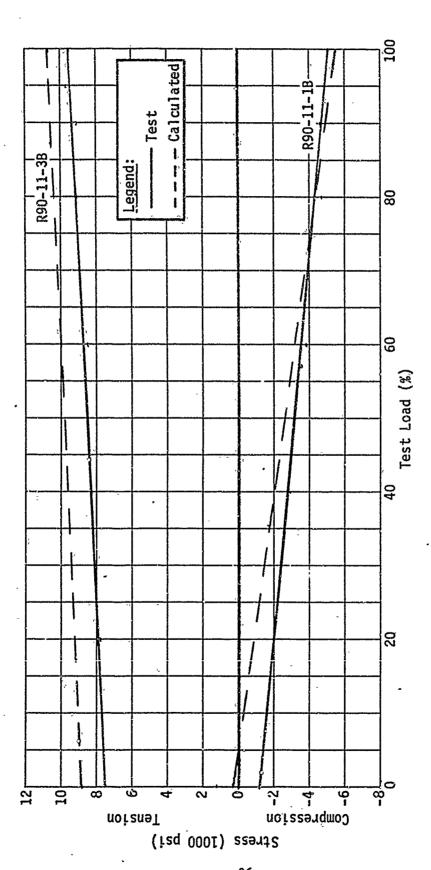


Figure 14 Condition 1 - Stress Plots of R90-11-1B and 3B

Analytical predicted values compare well with the actual test values on the truss-core structure. Both longitudinal (-1 gages) and hoop (-3 gages) read generally lower than the predicted stresses due to the fact that predicted stresses are based on the assumption that barrel skins are design-nominal in thickness. At Sta 378.22 design nominal is 0.032 in.; actual skin thickness is 0.040 in. for the inside skin and 0.041 in. for the outside skin. At Sta 444.67 design nominal is 0.044 in.; actual skin thickness is 0.045 in. for the inside skin and 0.048 in. for the outside skin. To be compatible with the test stresses which include the Poisson effect, the analytical predicted stresses also account for Poisson's effect. The analytical stresses for these areas are determined as follows:

$$f_1 = \frac{pR}{2t} - \frac{\mu pR}{t} - \frac{P}{A} \pm \frac{Mc}{I};$$

$$f_2 = \frac{pR}{t} - \frac{\mu pR}{2t} + \frac{\mu P}{A} \pm \frac{\mu Mc}{I}.$$

where:

f. = Longitudinal Stress

 f_2 = Hoop Stress

p = Pressure (different for longitudinal and hoop analysis)

P = Load

t = Thickness (different for longitudinal and hoop analysis, but assumed equal when calculating Poisson's effect)

R = Radius

A = Area

M = Moment

I = Moment of Inertia

c = Distance from the Neutral Axis

d = Effective Thickness

u = Poisson's Ratio

Thickness, area, and moment of inertia at Sta 378.22 and 444.67 are determined according to Fig. 15.

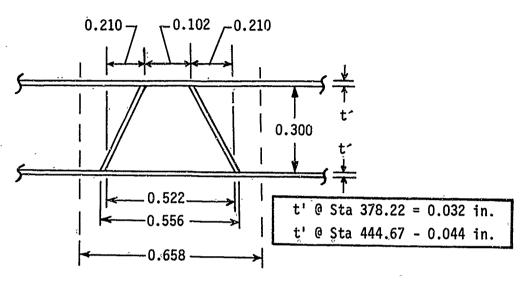


Figure 15 Typical Truss Core Structure Cross Section

Area/in. =
$$d = 2t' + F$$

Where $F = \frac{Cross\ Bar\ Area}{in}$

At Sta 378.22:

$$F = \frac{1}{.658} (0.300 \times 0.658 - 0.204 \times 0.300 - 4 \times 0.5 \times 0.300 \times 0.210)$$

$$F = 0.300 - \frac{0.1872}{0.658} = 0.0155 \text{ in.}^2/\text{in.}$$

$$d = 0.064 + 0.0155 = 0.0795 in.^2/in.$$

$$A = 2 \pi Rd = 2 \times \pi \times 60 \times 0.0795 = 29.97 in.^2$$

$$I = \pi R^3 d = \pi \cdot 60^3 \times 0.0795 = 53,950 in.4$$

At Sta 444.67:

$$d = 2t' + F$$

Į,

$$d = 0.088 + 0.0155 = 0.1035 in.^2/in.$$

 $A = 2 \pi Rd = 2 \pi 60 \times 0.1035 = 39.02 in.^{2}$

 $I = \pi R^3 d = \pi 60^3 \times 0.1035 = 70,230 \text{ in.}^4$.

Longitudinal and Hoop stresses at Sta 378.22 are:

$$f_1 = \frac{pR}{2t} - \frac{\mu pR}{t} - P/A \pm \frac{Mc}{I}$$
;

$$f_2 = \frac{pR}{t} - \frac{\mu pR}{2t} + \frac{\mu P}{A} \pm \frac{\mu Mc}{I}$$

Where $\mu=0.33$. t for longitudinal calculations is 0.0795 in. and t for hoop calculation is 2 x 0.032 in. = 0.064 in., since the cross bars do not resist hoop load. Pressure in longitudinal calculation is 10 psig while pressure in hoop calculation is 12.24 psig.

At 10 psig topping pressure and zero external loads:

$$f_1 = \frac{10 \times 60}{2 \times 0.0795} - \frac{0.33 \times 12.24 \times 60}{0.0795}$$

 $f_1 = 3775 - 3050 = 725 \text{ psi tension}$

$$f_2 = \frac{12.24 \times 60}{0.064} - \frac{0.33 \times 10 \times 60}{2 \times 0.064}$$

 $f_2 = 11,500 - 1,545 = 9,955$ psi tension

with 10 psig topping pressure and 100% Condition-1 Loads

P = 222,700 1b

 $M = 1,589,000 \text{ in.-lb} + 24,450 \text{ lb} \times 56.52 \text{ in.} = 2,970,000 \text{ in.-lb}$

$$f_1 = 725 - \frac{222,700}{29.97} \pm \frac{2,970,000}{53,950} c$$

 $f_1 = 725 - 7450 \pm 55.2 c.$

Strain gages R0-04-1A and 1B, with c=60 in., should register

 $f_1 = 10,040$ psi compression.

Strain gages R90-04-1A and 1B, with c = 0, should register

$$f_1 = 725 - 7450 = 6725$$
 psi compression

$$f_2 = 9955 + \frac{\mu P}{A} \pm \frac{\mu Mc}{I}$$

$$f_2 = 9955 + \frac{0.33 \times 222,700}{29.97} \pm \frac{0.33 \times 2,970,000 \times c}{5^{\circ},950}$$

$$f_2 = 9955 + 2460 \pm 18.2 c$$

Strain gages RO-04-3A and 3B, with c = 60 in., should register

 $f_2 = 13,505$ psi tension.

Strain gages R90-04-3A and 3B, with c = 0 in., should register

 $f_2 = 12,415$ psi tension.

Longitudinal and hoop stresses at Sta 444.67 are as follows: $\mu=0.33$. t for longitudinal calculations is 0.1035 in., and t for hoop calculations is 2 x 0.044 = 0.088 in., since the cross bars do not resist hoop load. Pressure in longitudinal calculations is 10 psig while pressure in hoop calculations is 14.64 psig.

At 10 psig topping pressure and zero external loads:

$$f_1 = \frac{10 \times 60}{2 \times 0.1035} - \frac{0.33 \times 14.64 \times 60}{0.1035}$$

 $f_1 = 2900 - 2600 = 300 \text{ psi tension}$

$$f_2 = \frac{14.64 \times 60}{0.088} - \frac{0.33 \times 10 \times 60}{2 \times 0.088}$$

 $f_2 = 10,000 - 1,125 = 8,875$ psi tension

with 10 psig topping pressure and 100% Condition-1 loads

P = 222,700 1b

 $M = 1,589,000 + 24,450 \times 122.97 = 4,589,000 in.-1b$

$$f_1 = 300 - \frac{222,700}{39.02} \pm \frac{4,589,000 \times c}{70,230}$$

 $f_1 = 300 - 5810 \pm 65.2 c.$

Strain gages RO-11-1A and 1B, with c = 60 in., should register

 $f_1 = 300 - 5810 - 3910$

 $f_1 = 9420$ psi compression.

Strain gages RO-11-1A and 1B, with c = 0 in., should register

 $f_1 = 5510$ psi compression.

Hoop gages

$$f_2 = 8875 + \frac{0.33 \times 222,700}{39.02} + \frac{0.33 \times 4,589,000 \times c}{70,230}$$

 $f_2 = 8875 + 1885 \pm 21.5 c.$

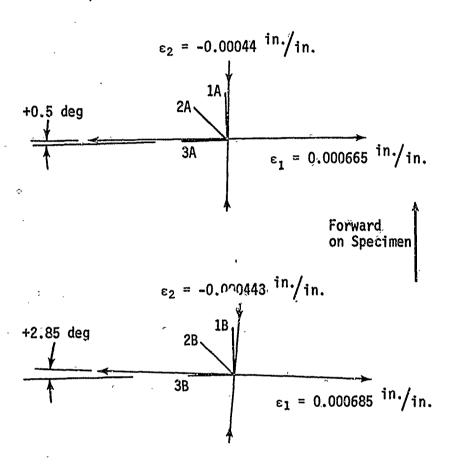
Strain gages RO-11-3A and 3B, where c = 60 in., should register

 $f_2 = 12,050$ pai ension.

Strain gages R90-11-3A and 3B, where c = 0 in., should register

 $f_2 = 10,760$ psi tension.

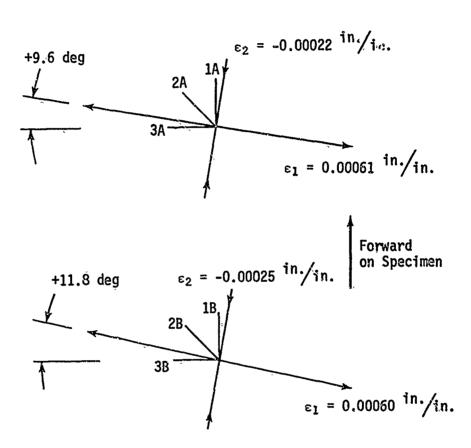
A rosette analysis was performed on the strains registered by each of the eight rectangular rosette gages located on the test article tank wall. These gages are identified as RO-04A, RO-04B, R90-04A, R90-04B, RO-11A, RO-11B, R90-11A and R90-11B. The principal strains and their directions are shown for each rosette gage in Fig. 16 through 19. The principal strains shown occurred when the test article was pressurized to 10 psig under 100% Condition-1 test loads.



View Looking at Gage Areas from Outside the Test Specimen.

- No. 1 Gages Measure Longitudinal Strain. No. 3 Gages Measure Hoop Strain.

Figure 16 Condition 1 - Principal Strains at RO-04 Rosette Gages

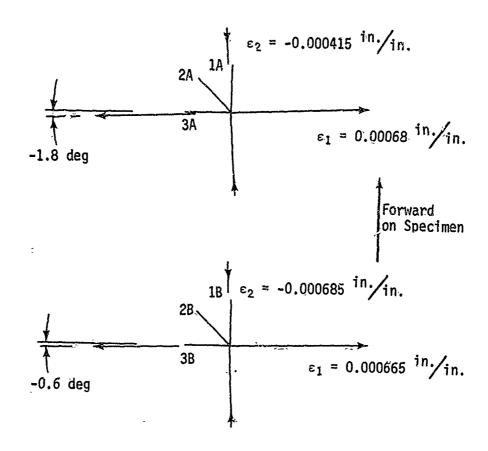


View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain.

No. 3 Gages Measure Hoop Strain.

Figure 17 Condition 1 - Principal Strains at R90-04 Rosette Gages

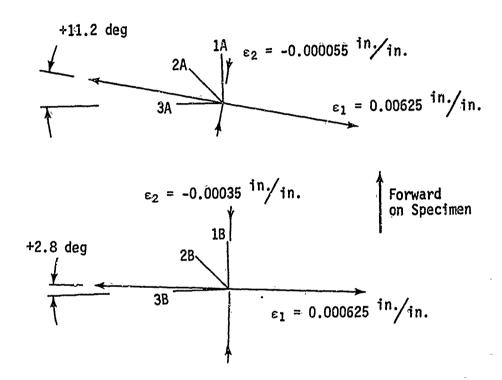


View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain.

No. 3 Gages Measure Hoop Strain

Figure 18 Condition 1 - Principal Strains at RO-11 Rosette Gages



View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain. No. 3 Gages Measure Hoop Strain

Figure 19 Condition 1 - Principal Strains at R90-11 Rosette Gages

After the Condition-1 test was completed, a visual inspection of the test specimen was performed. A water leak was found in the outside circumferential weld of the aft barrel to the Y-ring joint. X-rays were taken of the leaking area, and the cause of the leak was found to be a 3/8-in.-long crack in the weld. Pretest x-rays show a weld defect at this same location. The leak resulted because the weld, at the point of the defect, became structurally incapable of carrying the load caused by internally pressurizing the tank to 10 psig.

The crack was stop-drilled, and a small aluminum patch was epoxy bonded over the crack to stop the leak. This repair did not alter the strength of the test article in the area of the leak, and allowed the test program to be continued. A photograph of the crack repair is shown in Fig. 20. This defect will be identified and described in Section V of this report.

7. CONCLUSIONS

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The conjugate structure sustained the test loads and internal tank pressure applied during the Condition-1 test. Test data indicates that the roll-diffusion-bonded-truss-core-barrel panels carried the compressive loads and tank internal pressure as designed.

Analytical and test values compare quite well with each other (Fig. 7 through 14). Major cause of the difference seen in the analytical and test values is that, in the areas where gages RO-04-1A, 3A, 1B and 3B; RO-11-3A and 3B; and R90-11-3A and 3B were installed, the test article barrel panel face sheets are thicker than the assumed design-nominal thickness. Gages RO-11-1A and 1B, and R90-11-1A and 1B, differed from the analytical value because of localized tank wall bending caused by the nearness of the aft barrel to cone junction.

Figure 21 shows a plot of deflection recordings made at Sta 413.8 and 455.61. The average of the four deflection gages located at Sta 413.8 indicates that the barrel increased in radius 0.050 in. while being pressurized to 10 psig. The average of the four deflection gages located at Sta 455.61 indicates that the barrel-to-cone junction decreased in radius an average of 0.021 in. while the tank was pressurized to 10 psig. This bending at Sta 444.67 caused the longitudinal gages located on the tank inner skin face sheets to register more compressive stress than analytically determined, and the longitudinal gages located on the outer face sheet to register more tension stress than analytically determined. The difference in the RO-11-1A and RO-11-1B recorded value from the analytical valves indicates a bending stress of approximately 2,000 psi in the tank barrel face sheets at this location.

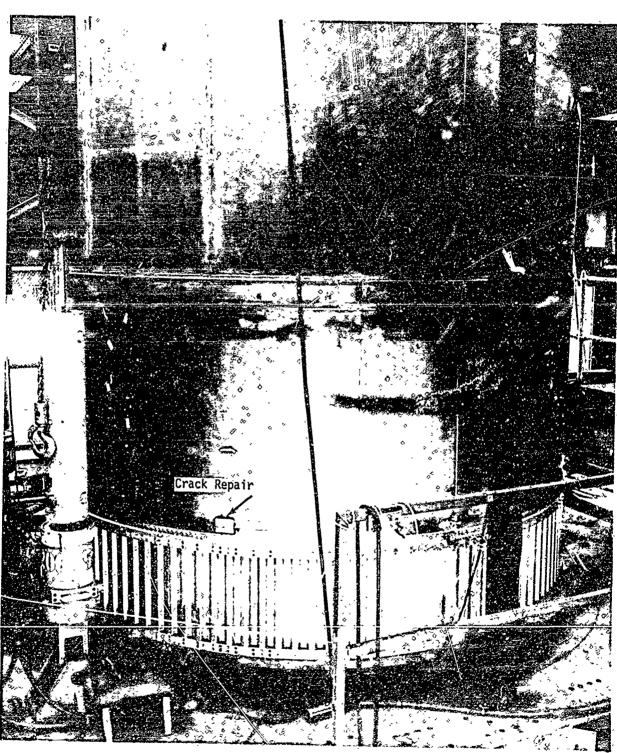


Figure 20 Photograph of Condition-1 Crack Repair

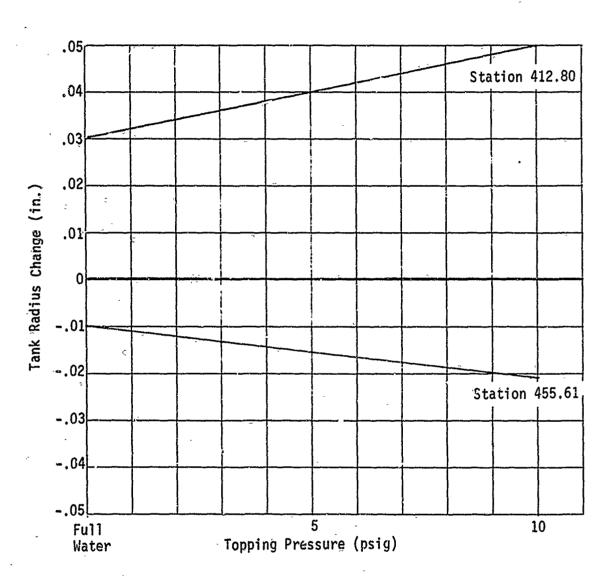


figure 21 Tank Wall Deflection vs Pressure

SECTION IV

CONDITION 2 - HYDROSTATIC TEST, 65 psig (JOP DOME PRESSURE)

1. TEST OBJECTIVE

This test subjected the specimen to limit hydrostatic pressure in a one-tank configuration to demonstrate the specimen's worthiness as a pressure vessel, and to provide data to indicate the ultimate pressure capability.

2. TEST SETUP

The test setup was the same as that used in the Condition-1 portion of the test. The loading head remained attached to the forward skirt of the specimen; however, no external loads were applied except for the loading head counterbalance load.

The plumbing system used in the Condition-1 portion of the test was again used to fill and drain the specimen with water and to pressurize the specimen with compressed air. (The plumbing was shown in Fig. 4.)

3. TEST PRESSURE

The test specimen was filled with 62,000 lb of water and pressurized to 65 psig (top dome pressure). The pressure was applied in increments, and test data were recorded while holding the top dome pressure at levels of 10, 20, 30, 40, 50, 55, 60 and 65 psig.

4. INSTRUMENTATION

- a. Strain Gages. The output of the 138 strain gages used in the Condition-1 test were again recorded, and were recorded in the same manner as during the Condition-1 test. Strain gage locations are shown in Fig. 5. Strain gage outputs were recorded at 10, 20, 30, 40, 50, 55, 60 and 65 psig. The rosette data were reduced to principal strains and directions after the test completion.
- b. Deflection Transducers. The displacements of the same seventeen deflection transducers used in the Condition-1 test were recorded during this test. (Deflection gage locations were shown in Fig. 6.)

c. Pressure Transducers. The upper dome pressure in each tank was measured through the use of two pressure transducers and a Bourdon gage. Internal tank pressure measurement and display was accomplished in exactly the same manner as it was in the Condition-1 test.

5. TEST DATA

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Test data (i.e., stress levels, pressure readings, and deflection readings) were recorded at top dome pressure levels of 10, 20, 30, 40, 50, 55, 60 and 65 psig. As the pressure increments were being applied, cracking sounds were heard emanating from the test specimen. Most sounds were in the range that is normally heard when a pressure vessel of this size is first pressurized. However, while pressurizing from 40 to 50 psig, a loud, muffled crack was heard at 42.5 psig, suggesting that a serious structural failure might have occurred. The pressure was dropped to zero, stopping at 30 psig for a data recording. After visually examining the specimen and observing no external defects, the test was resumed and strain gage data were again recorded at 10, 20, 30, and 40 psi.

A copy of the complete stress and pressure tabulation for the Condition-2 test is shown in Appendix III. Deflections are shown in Table II.

Table II Deflection Recorded During Condition-2 Test (in.)

Deflection gage number	Tanks full	Test increments										
		10 psi	20 ps1	30 ps1	40 ps1	30 ps i	50 psi	55 ps1	60 ps1	65 ps1	10 psi	SE
1	-0.03	-0.03	-0.04	-0.03	-0.03	-0.04	-0.04	-0.64	-0.04	-0.03	-0.04	
2	-0.02	-0.0t ⁻	-0.04	-0.04	-0.04	~0.04	-0.05	-0.05	-0.04	-0.04	-0.04	
3	-0.01	-0.03	-0.03	-0.03	-0.03	-0.05	-0.05	-0.04	-0.04	-0.04	-0.04	
4	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.02	
5	0.00	-0.03	-0.05	-0.06	-0.07	-0.03	-0.10	-0.10	-0.12	-0.10	-0.04	
6	-0.02	-0.05	-0.09	-0.0×	-0.12	-0.12	-0.14	-0.14	-0.15	~0.16	-0.08	
7	~0.01	-0.04	-0.06	-0.07	-0.68	-0.09	-0.12	-0.12	-0.12	-0.13	-9.06	
8	-0.01	-0.04	-0.05	-0.07	-0,09	-0.07	-0.10	-0.11	-0,10	-0.12	-0.04	
9	2.00	0.026	0.039	0.050	0,062	0.052	0.080	0.089	0,036	0.103	0.028	
10	0:00	0.027	0.039	0.051	0.734	0.053	0.030	0.089	0.094	0.101	0.029	
11	.0.691	0.021	6.033	0.043	0.655	0.041	0.066	0.073	0.079	0.085	0.022	
12	0.002	0.025	0.039	0.050	0.063	0.052	0.077	0.086	0.092	0.039	0.029	
13	0.000	-0.605	0.001	0.606	0.614	0.001	0.010	0.013	0.017	0.019	-0.003	
14	0.001	-0.004	0.602	0.010	0.018	0.017	0.030	0.034	0,040	0.046	0.001	
15	0.00	-0.006	-0.002	0.002	0.005	0.002	0.011	0.013	0.019	0.021	-0.005	
16	0.00	-0.007	-0.001	0.657	0.009	0.002	0.015	0.016	0.020	0.023	-0.005	
17	0.00	-0.042	-0.074	-0.102	-0.130	-0.166	-0.165	-0.181	-0.195	-0.210	-0.047	

Mote: 1. Accuracy: ±0.01 on 0.00 readings and ±0.001 on 0.000 readings.

Minus sign indicates specimen deflection is toward the gage. Pius sign indicates specimen deflection is away from the case. (Pefer to Fig. 8 for deflection gage locations.)

An example of how to read the stress tabulation is as follows:

Assume one wants to determine the stresses recorded by strain gage P180-13-1B. (Computer tabulation runs show gage numbers without hyphens; Appendix III.) This gage is located approximately mately at Sta 453 on the aft end of the aft barrel on the interior of the specimen, and registers longitudinal strain. Figure 5 is a guide used to determine strain gage locations and numbers. Using the strain gage number P180-13-1B, enter the tabulation and find P180-13-1B. The left-hand column labeled TEST identifies 2100, which represents tanks full of water with counterbalance applied. 2110, 2120, 2130, 2140, 2150, 2155, 2160 and 2165 represent 10, 20, 30, 40, 50, 55, 60 and 65 psig top dome pressure, respectively. 2131 in the TEST column identifies the reading taken at 30 psig after the suspected failure occurred at 42.5

The second column from the left labeled COND identifies recordings made while returning to the 50 psig level. 0010, 0020, 0030 and 0040 indicate pressure levels of 10, 20, 30 and 40 psig. The 2111 under the TEST column indicates a set recording made after the test specimen was at 65 psig. Notice that each gage was scanned five times at each reading except for the 10, 20, 30 and 40 psig recordings made while returning to 50 psig after the suspected failure. These were recorded twice. If one were interested in P180-13-18 at 55 psig, the reading would be approximately 36,340 psi tension.

The tabulation also contains P1 and P2, which are pressure recordings taken at the apex of the common dome (P1) and at the apex of the forward dome (P2). Under the column labeled P2 a tabulation reading of 1047.00 indicates the top dome pressure was at 10.47 psig, less instrumentation zero, when the recording was made.

TEST RESULTS

The test specimen did sustain 65 psig. The TV monitors showed a water leak just as the test data was recorded at 65 psig. This leak was from the top lome to upper tank Y-ring circumferential weld. After the pressure was reduced to zero and the water removed from the tanks, the access covers were removed and a visual examination revealed three cracks in the tankage portion of the test specimen. One was a 2-in. long crack in the forward dome to Y-ring circumferential weld. This crack opened up while the test specimen was carrying between 60 and 65 psig pressure. The two other visual cracks were in the aft tank barrel to lower Y-ring inner circumferential weld, one 42.5 in. long and the other 10 in. long. These two cracks were approximately 90 deg apart.

After completing the visual examination, the test specimen was removed from the test cell. The forward and aft skirts were removed and the conjugate tankage was taken to the radiographic building where all welds were x-rayed. Examination of the weld x-rays showed that the test specimen welds cracked in seven areas during the two test conditions of the conjugate tank test; the three visually found areas are included among the seven. The aft tank barrel to lower Y-ring circumferential welds contained four cracked areas. The aft circumferential weld joining the forward barrel to the upper-tank-attach-ring cracked at one location. A parent metal crack located in the forward barrel, which had been weld repaired, cracked. The forward dome to Y-ring circumferential weld cracked at one location. All of these cracks were either not completely through the materials, or were located in the inner wall of a double wall joint. When the inner weld cracked, the pressure load redistributed and was carried by the surrounding structure. The only external weld that cracked and leaked water was the one located in the forward dome to Y-ring weld. Water leakage at this location was noticed while the test pressure was at 65 psig. This crack was short enough to allow load redistribution around it. Figures 22 through 26 are photographs which show the location of cutouts that removed these seven cracked areas from the test specimen. These cracked areas were cut out of the test specimen so that a thorough failure analysis could be performed on each area. This failure analysis is presented in Section V of this report.

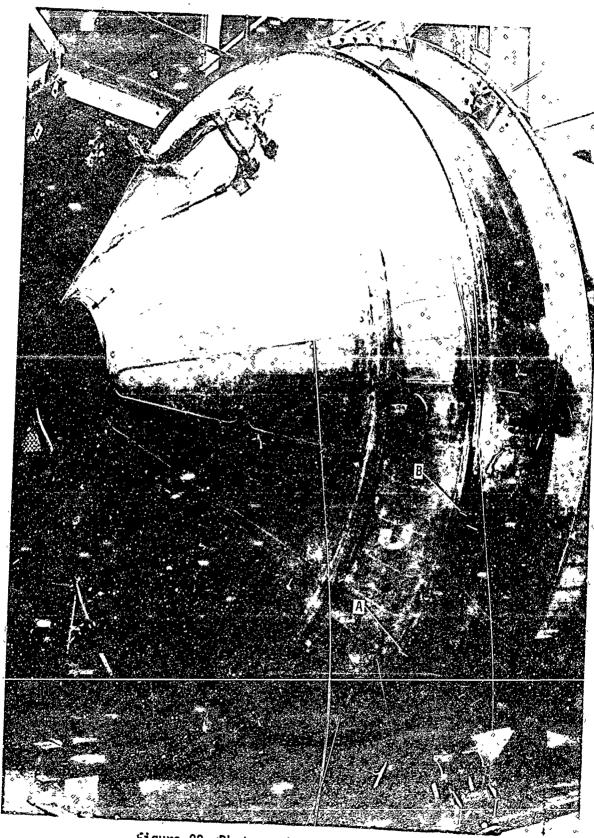


Figure 22 Photograph of Cutouts A and B

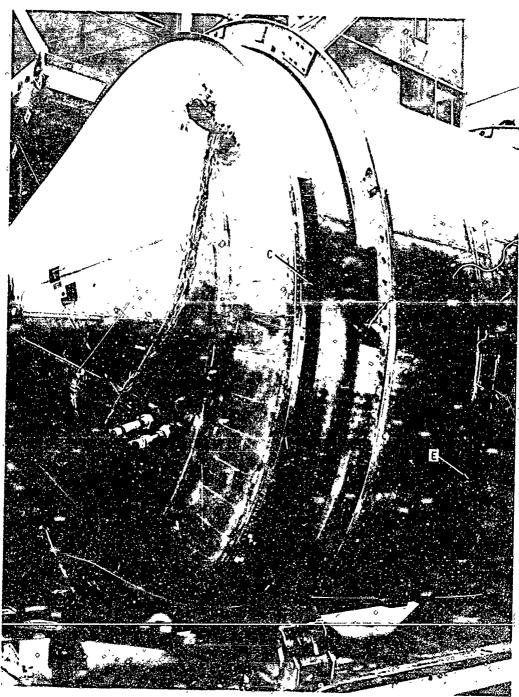


Figure 23 Photograph of Cutouts C and E

Figure 24 Photograph of Cutout D

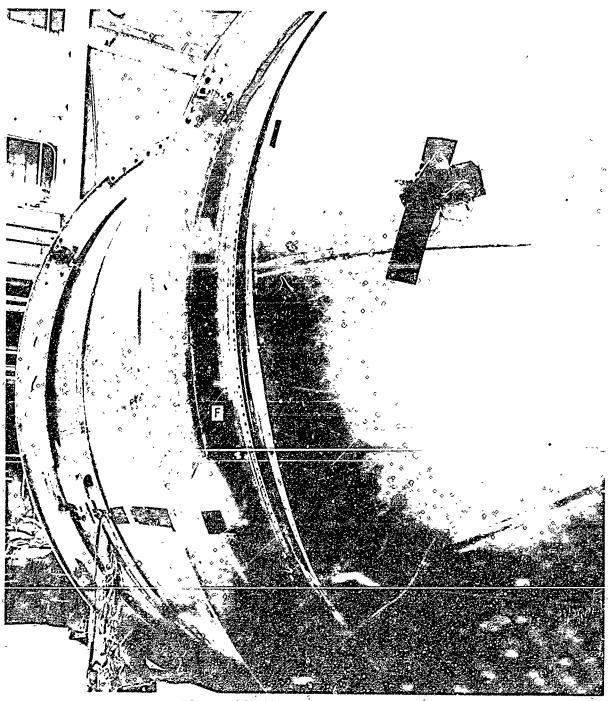


Figure 25 Photograph of Cutout F

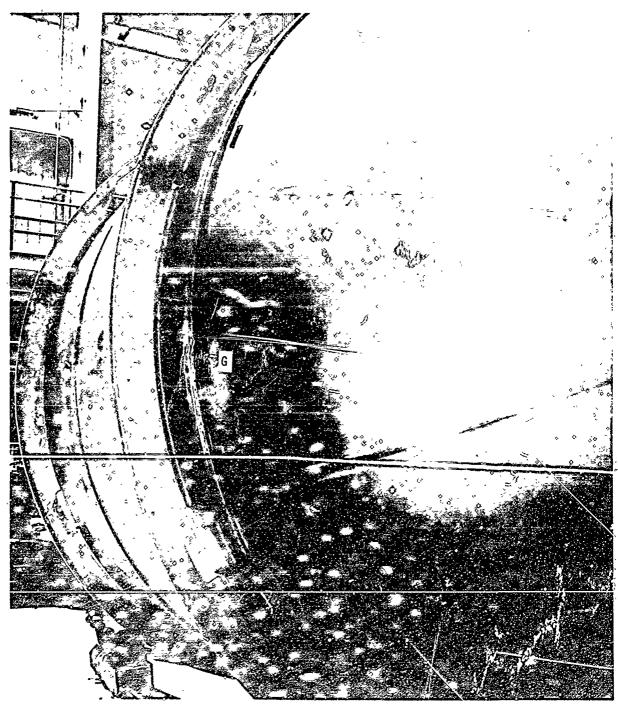


Figure 26 Photograph of Cutout G

Cutouts A, B, C, and D in Fig. 22, 23 and 24 identify the four crack areas found in the aft tank barrel to lower Y-ring welds. Cutout D identifies the crack that was stop-drilled and patched after the Condition-1 test. Figure 23 (cutout E) identifies the crack area found in the outer weld of the forward barrel to the upper-tank-attach-ring. Figure 25 (cutout F) identifies the cutout made to remove the forward barrel parent metal weld repair crack. Figure 26 (Cutout G) identifies the cutout made to remove the forward dome to Y-ring weld crack. Figures 27 through 30 show the circumferential location of these cutouts.

Strain gages identified as PO-13-1B and 2B were located approximately 0.5 in. above the aft tank barrel to lower Y-ring inside circumferential weld, and were approximately in the center of the 42.5-in. crack area. Stress plots of PO-13-1B and 2B are shown in Fig. 31. PO-13-1A and 2A were located in the same area of the test specimen but on the outside skin line of the tank. Stress plots of PO-13-1A and 2A are shown in Fig. 32. Similar strain gage locations to the aft barrel to lower Y-ring weld were those identified as P180-13-1B and 2B, and P180-13-1A and 2A. The P180-13s were located 180 deg away from the PO-13s. Stress plots of P180-13-1B and 2B are shown in Fig. 33, and P180-13-1A and 2A are shown in Fig. 34.

If the test specimen had not had a structural failure in the area of the PO-13 gages the stress plots shown in Fig. 31 would agree with those in Fig. 34. The stress plots shown in Fig. 31 and 32 indicate that the inside weld of the aft barrel to lower Y-ring started cracking after the 20-psig data were recorded. At 42.5 psig, a loud report was heard and the PO-13-1B and 2B gages were no longer capable of recording strain. For these reasons, it to assumed that at 42.5 psig the crack propagated to its full length.

Strain gages RO-11-1A and 3A, and RO-11-1B and 3B ware legs of a rosette gage located approximately 10 in. forward of the 42.5-in. crack, and centered on it; 1A and 3A were outside skin line gages, and 1B and 3B were inside skin line gages. Stress plots of RO-11-1A and 3A are shown in Fig. 35. Stress plots of RO-11-1B and 3B are shown in Fig. 36; 1A and 1B registered longitudinal strain, and 3A and 3B registered hoop strain. Another set of rosette gages was located in equal distance away from the aft barrel to lower Y-ring weld as the RO gages were, these are identifies as the R90-11s. The R90-11s were 90 deg from the RO-11 gages. Stress plots of the R90-11-1A and 3A gages, and R90-11-1B and 3B gages are shown in Fig. 37 and 38. Stress plots shown in Fig. 35 should agree with these shown in Fig. 37, and those shown in Fig. 36 should agree with those shown in Fig. 34. However, the structure failure caused a redistribution of loud, and Fig. 35 and 36 indicate this change as the test specimen was pressurized from 40 to 50 psig.

Looking Aft on Weld at Station 454.5

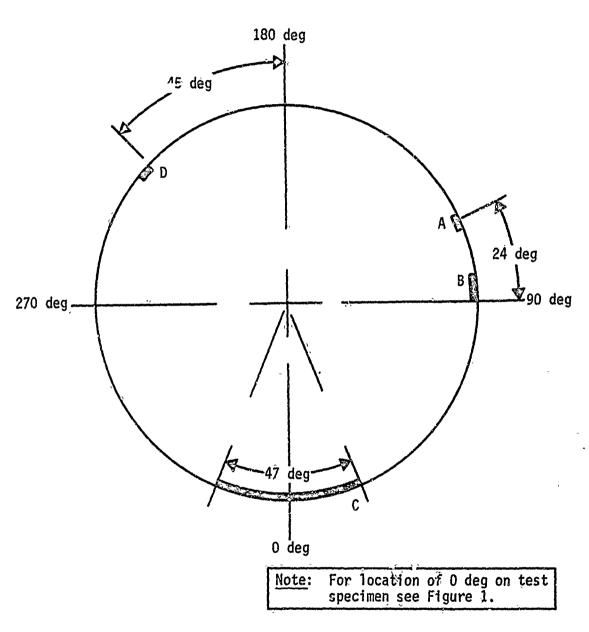
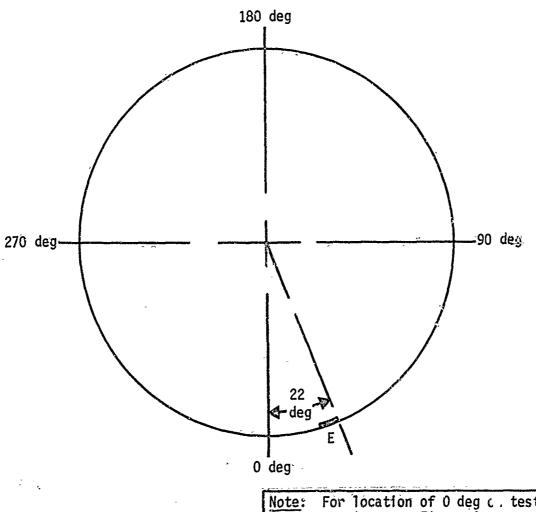


Figure 27 Circumferential Location of Cutouts in the Station 454.5 Weld

Looking Aft on Weld at Station 410.2

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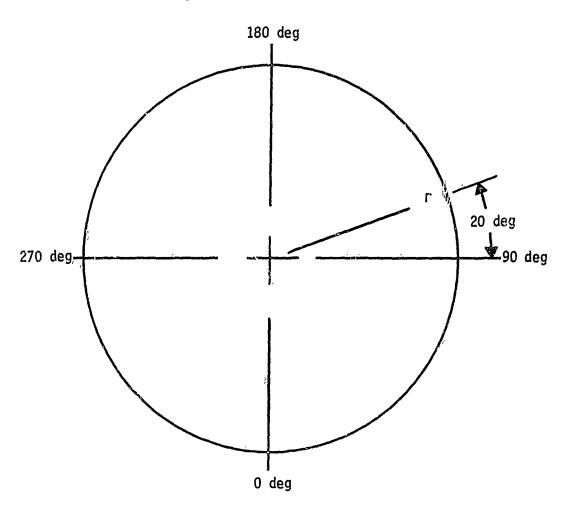
For location of 0 deg c . test specimen see Figure 1.

The state of the s

Figure 28 Circumferential Location of Cutout in the Station 410.2 Weld

Looking Aft on Weld at Station 347.5

4



Note: For location of 0 deg on test specimen see Figure 1.

Figure 29 Circumferential Location of Cutout at Station 347.5

Looking Aft on Weld at Station 343.5

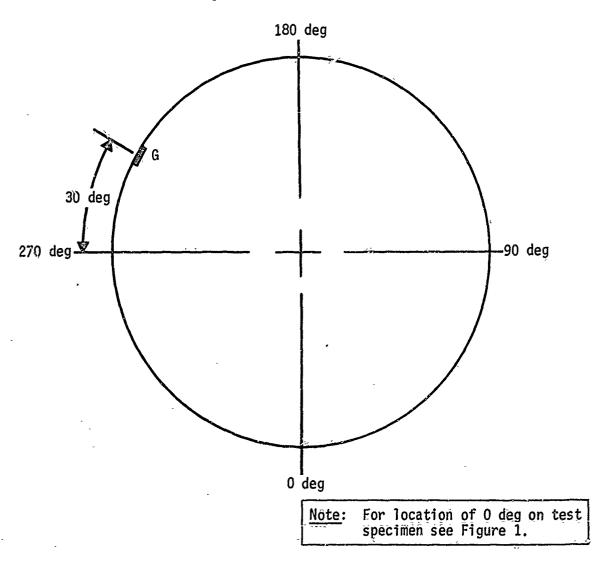
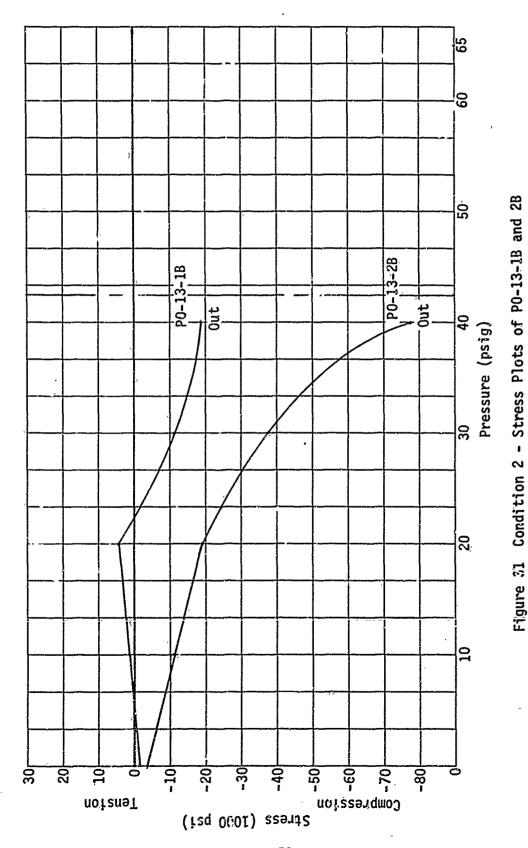


Figure 30 Circumferential Location of Cutout at Station 343.5



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Figure 31

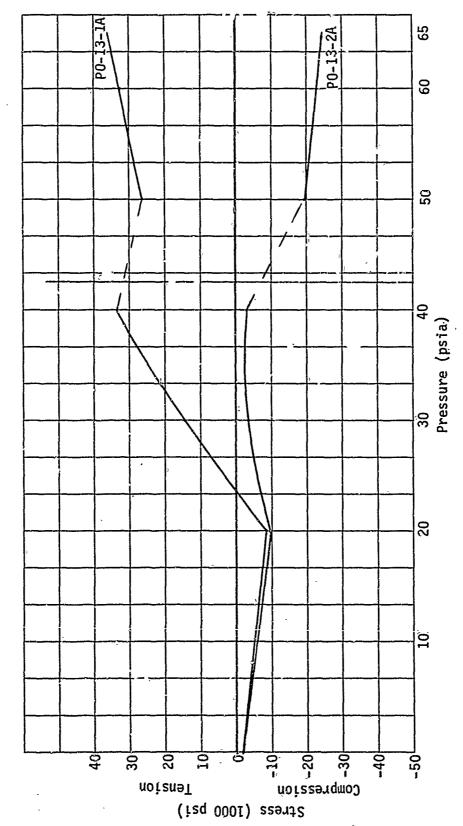
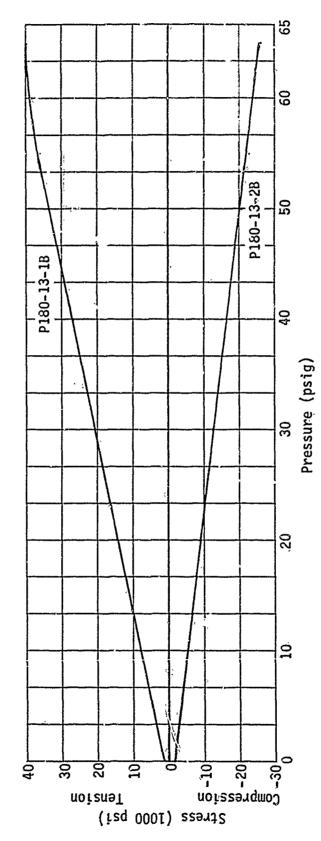


Figure 32 Condition 2 - Stress Plots of PO-13-1A and 2A



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Figure 33 Condition 2 - Stress Plots of P180-13-1B and 2B

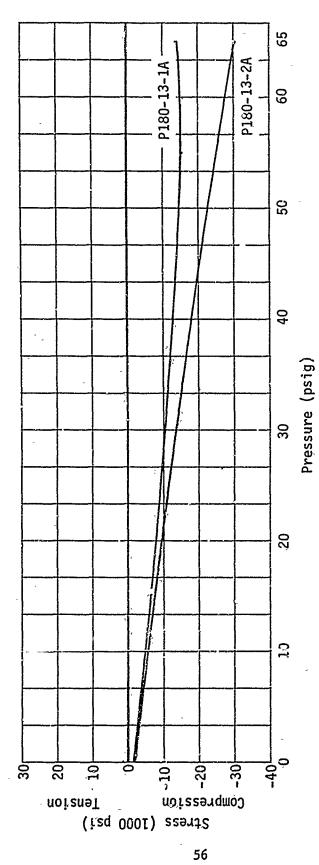


Figure 34 Condition 2 - Stress Plots of P180-13-1A and 2A

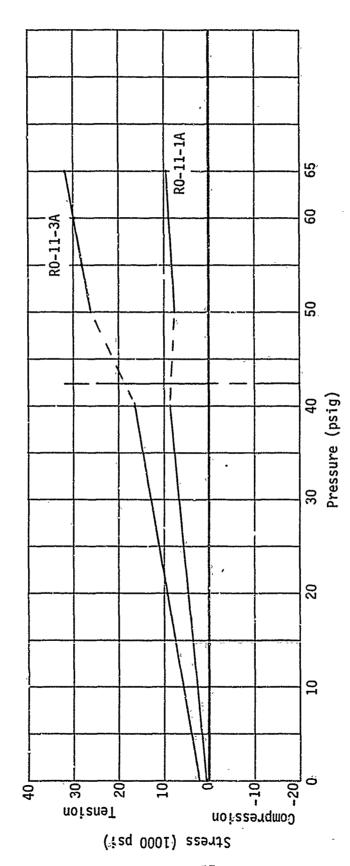


Figure 35 Condition 2 - Stress Plots of R0-11-1A and 3A

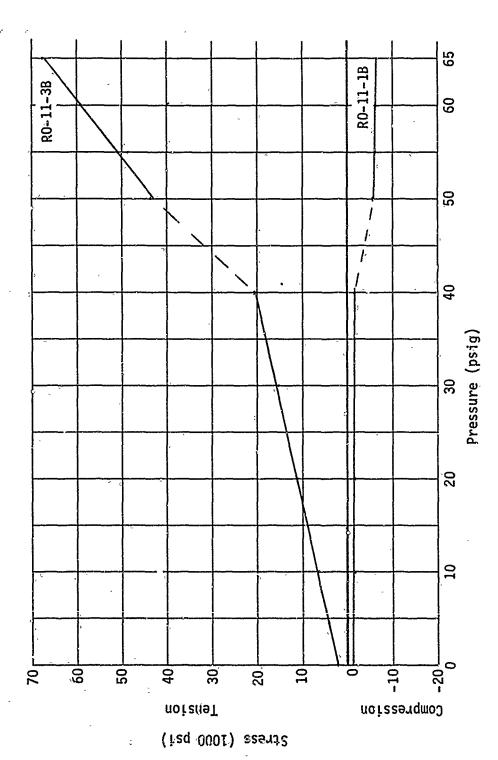


Figure 36 Condition 2 - Stress Plots of RO-11-1B and 3B

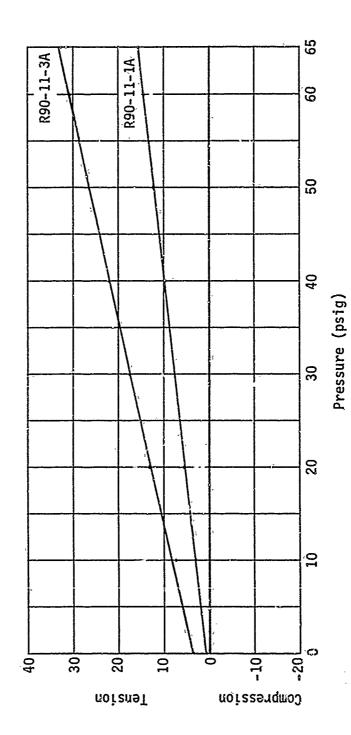


Figure 37 Condition 2 - Stress Plots of R90-11-1A and 3A

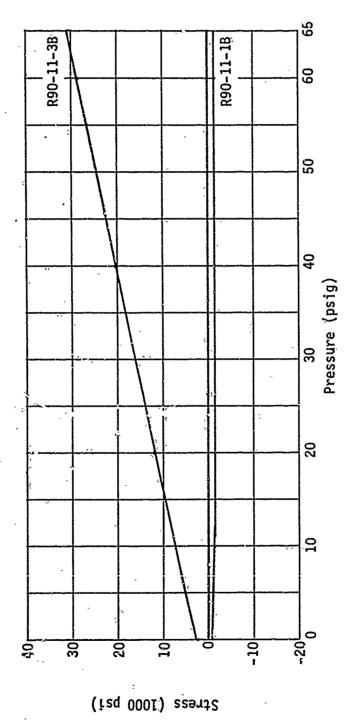


Figure 38 Condition 2 - Stress Plots of R90-11-1B and 3B

There were no strain gages in the immediate area of the Sta 343.5 weld crack; however, strain gages identified as 10-03-1B, PO-03-2B, P90-03-1B, P90-03-2B, P180-03-1B, P180-03-2B, L162-28A and L162-28B should have recorded strains comparable to those found at the defect. These gages are plotted in Fig. 39 through 42. All of these gages were located approximately 0.5 in. above the weld. All gages except L162-28A were located on the inside skin. PO-03-1B, P90-03-1B, P180-03-1B, L162-28A and L162-28B all measured longitudinal strain. The stress level recorded from all inside skin line gages in the longitudinal direction was around 80,000 psi tension. Theoretically, the stress level across this weld while the tank was at 65 psig should have been approximately 32,500 psi. A visual examination of the weld indicates that the dome was welded to the Y-ring with approximately 300 percent mismatch, causing severe local bending. The back-to-back gages, L162-28A and L162-28B, identified this bending, it can be seen in the stress plots for these gages in Fig. 42. The 162-28A gage located on the outside skin line registered 78,400 psi compression, while the 162-28B gage located on the inside skin line registered 84,200 psi tension.

Figures 43 and 44 show deflection plots of the radial change in the test specimen at Sta 413.8 and 455.61 respectively. While pressurizing to 65 psig, the test specimen radius increased an average of approximately 0.13 in. at Sta 413.8. The radius at Sta 455.61 decreased 0.103 in. while pressurizing to 65 psig. The cone apex dropped 0.210 in. while pressurizing to 65 psig. Figure 45 shows the deflection of the cone apex.

Test specimen barrel panel principal strains and directions are shown in Fig. 46 through 49. These strains were recorded at rosette gage locations while the test specimen was at 65 psig top dome pressure.

7. CONCLUSIONS

The test article was not structurally capable of withstanding limit hydrostatic pressure (65 psig top dome pressure). Data indicates that discontinuity bending stresses occurred at most circumferential weld joints in the test specimen. These bending stresses exceeded the weld capability in some areas, and these areas cracked. Test stresses recorded at other areas on the conjugate structure, not effected by discontinuities, were relatively low. A visual examination revealed no structural degradation of any other areas except those identified in this report.

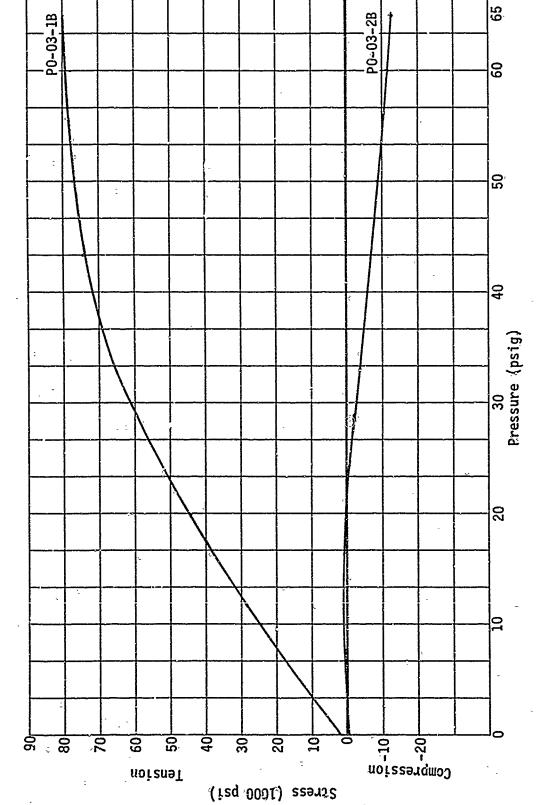


Figure 39 Condition 2 - Stress Plots of PO-03-18 and 28

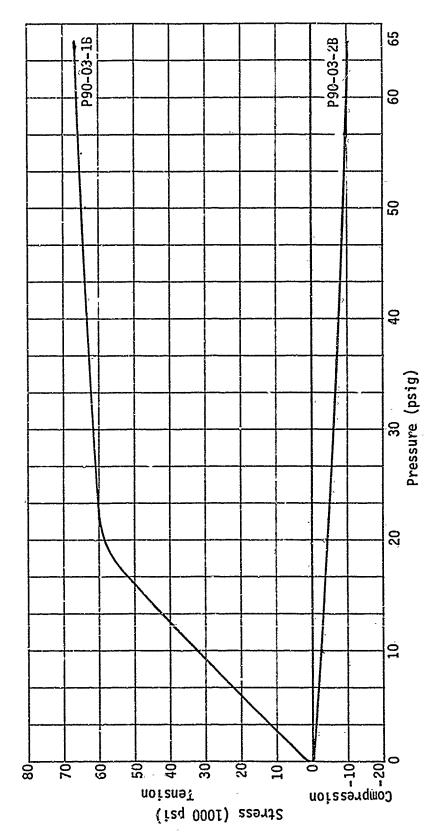


Figure 40 Condition 2 - Stress Plots of P90-03-1B and 2B

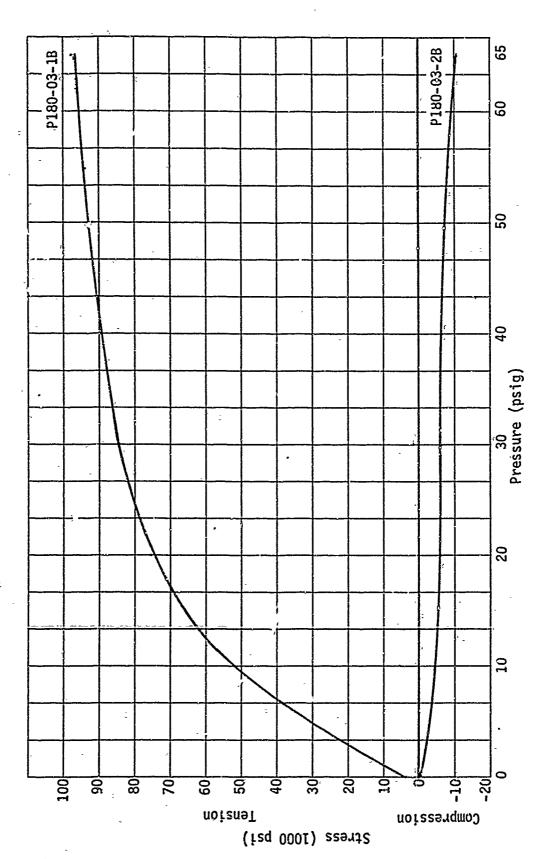


Figure 41 Condition 2 - Stress Plots of P180-03-1B and 2B

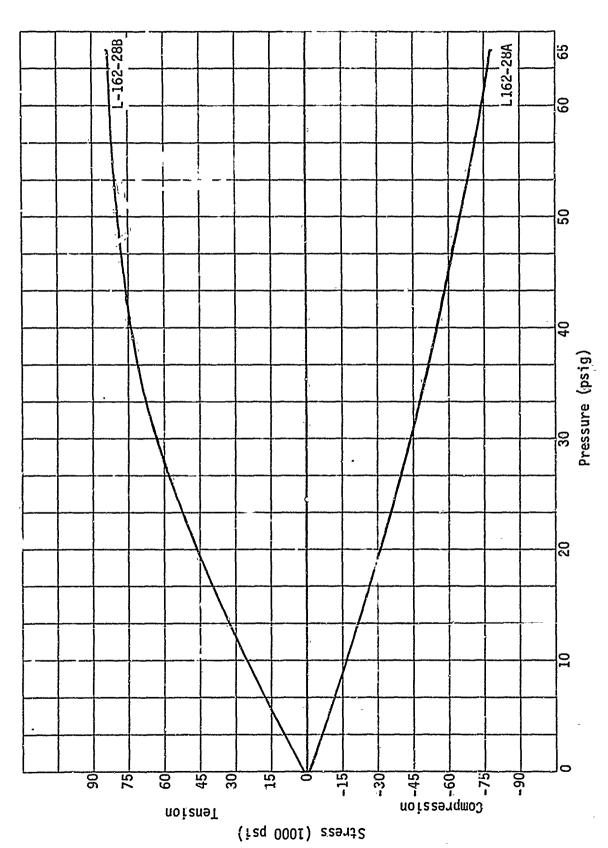
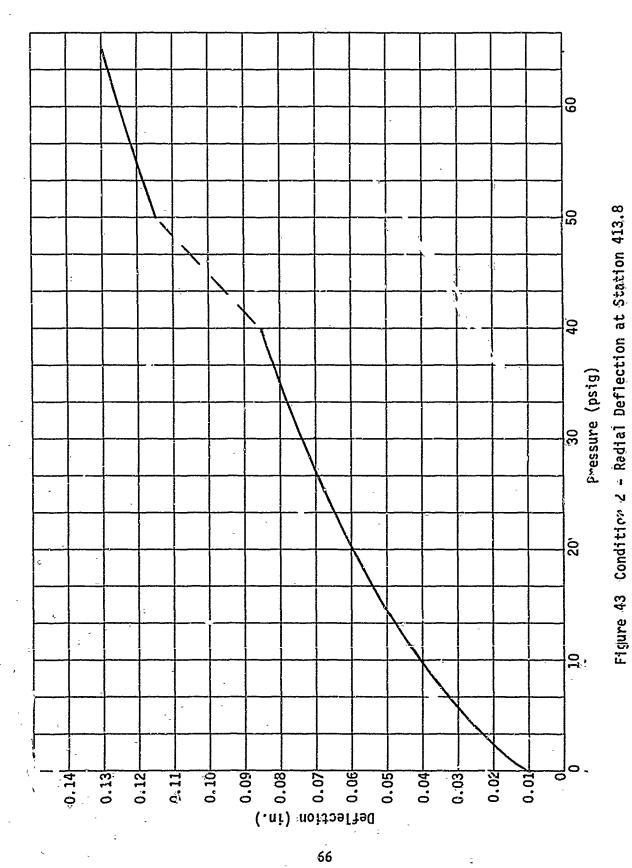


Figure 42 Condition 2 - Stress Plots of L162-28A and 28B



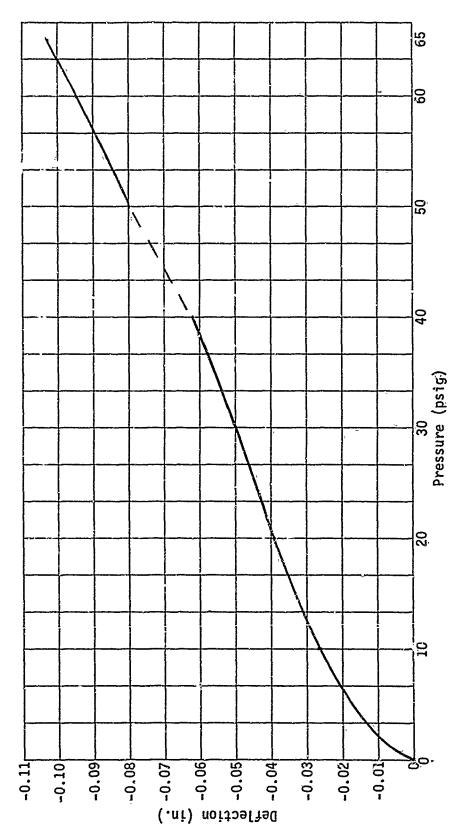
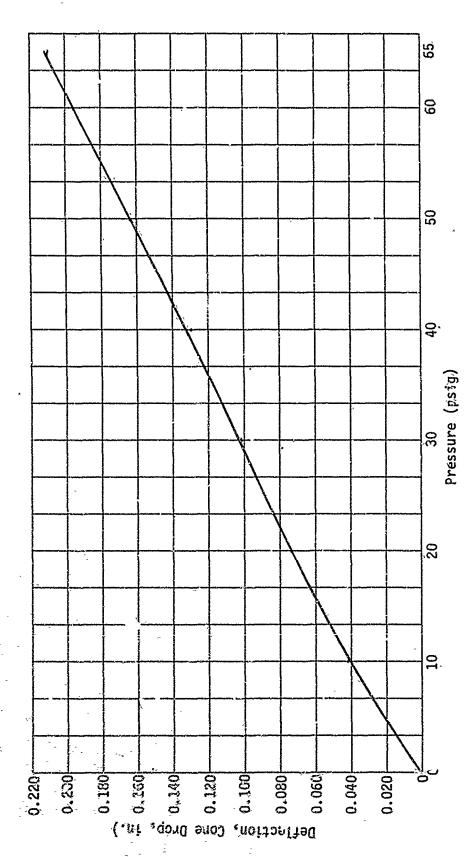


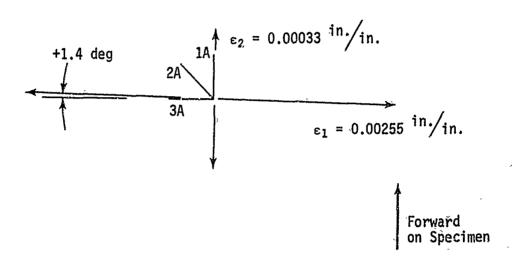
Figure 44 Condition 2 - Radia Deflection at Station 455.61

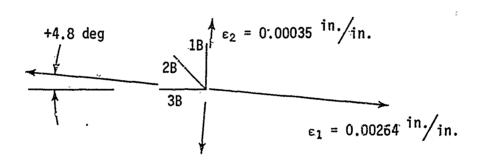


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Figure 45 Condition 2 - Deflection of Cone Apex

Principal Strains and Directions Shown are at a Test Level of 65 psig.





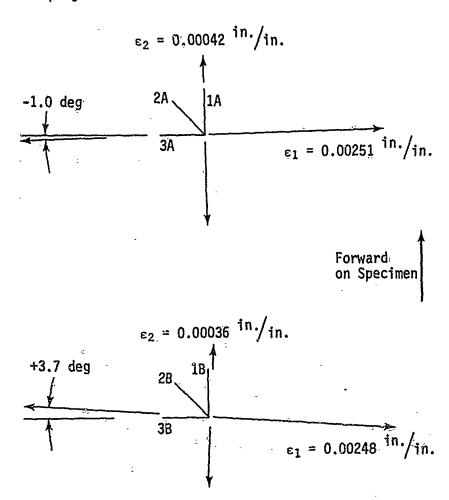
View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain.

No. 3 Gages Measure Hoop Strain.

Figure 46 Condition 2 - Principal Strains at RO-04 Rosette Gages

Principal Strains and Directions Shown are at a Test Level of 65 psig.

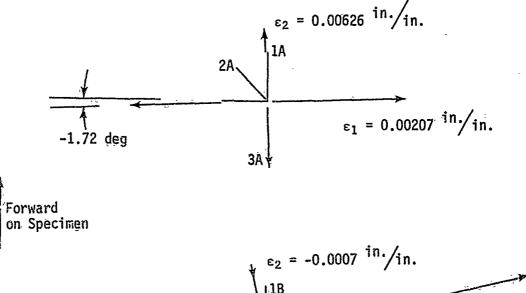


View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain. No. 3 Gages Measure Hoop Strain.

Figure 47 Condition 2 - Principal Strains at R90-04 Rosette Gages

Principal Strains and Directions Shown are at a Test Level of 65 psig.



 $\epsilon_2 = -0.0007$ in.

2B

1B $\epsilon_1 = 0.00465$ in./in.

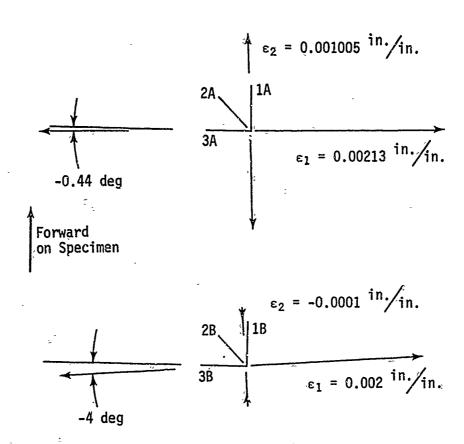
View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain.

No. 3 Gages Measure Hoop Strain.

Figure 48 Condition 2 - Principal Strains at RO-11 Rosette Gages

Principal Strains and Directions Shown are at a Test Level of 65 psig.



View Looking at Gage Areas from Outside the Test Specimen.

No. 1 Gages Measure Longitudinal Strain. No. 3 Gages Measure Hoop Strain.

Figure 49 Condition 2 - Principal Strains at R90-11 Rosette Gages

SECTION V

FAILURE ANALYSIS

As previously discussed, failure of the conjugate tankage during the test resulted in a 42.5-in. crack on the inside aft tan barrel to lower Y-ring circumferential weld. After the tank failure, the tank was visually inspected, the structural welds (including all repair welds) were radiographically inspected, and the tank and radiographs were submitted for failure analysis.

Several areas of the tank were selected, based on the visual inspection and radiographs, for extensive investigation. These areas, designated by specimen numbers 1 to 10, are listed in Table III with their corresponding cutout identification, location degree, weld designation, and x-ray footage location.

1. OBJECT

The object of the failure analysis was to determine the cause of failure of the aft tank barrel to lower Y-ring circumferential weld. It was also the purpose of this investigation to evaluate other areas of the conjugate structure for weld integrity and quality.

CONCLUSIONS

It was concluded that the point of failure of the aft tank barrel to lower Y-ring circumferential weld began in approximately a 6-in. span in the center of the 42.5 in. crack at the edge of the weld. It was also concluded that failure was caused by the following conditions, listed according to importance:

- 1) Stabilized alpha surface layer on the parent metal adjacent to the weld;
- Residual restraint in the area of failure;
- 3) Mismatch in the area of failure.

It appears that the bulk of the stabilized alpha layer was present prior to any welding, as evidenced by its prominence on the truss core approximately 3 in. away from any weld.

3. RESULTS

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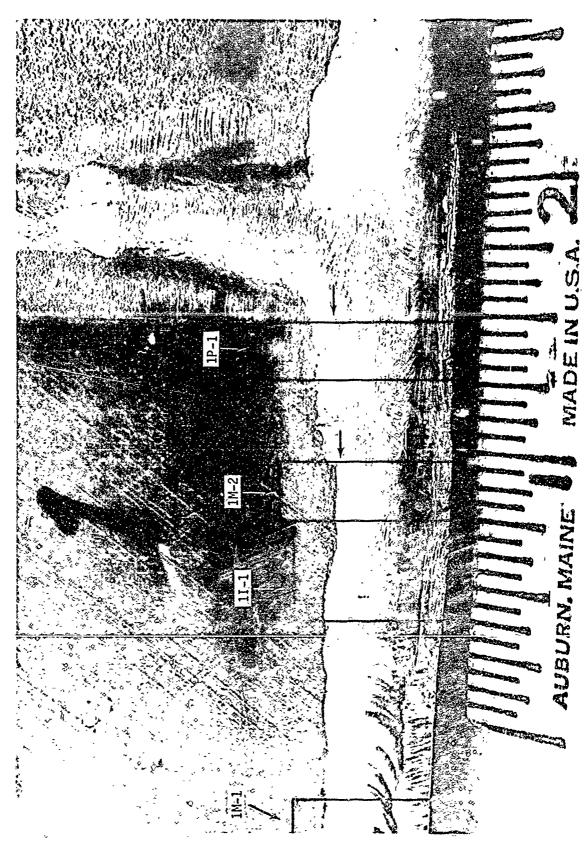
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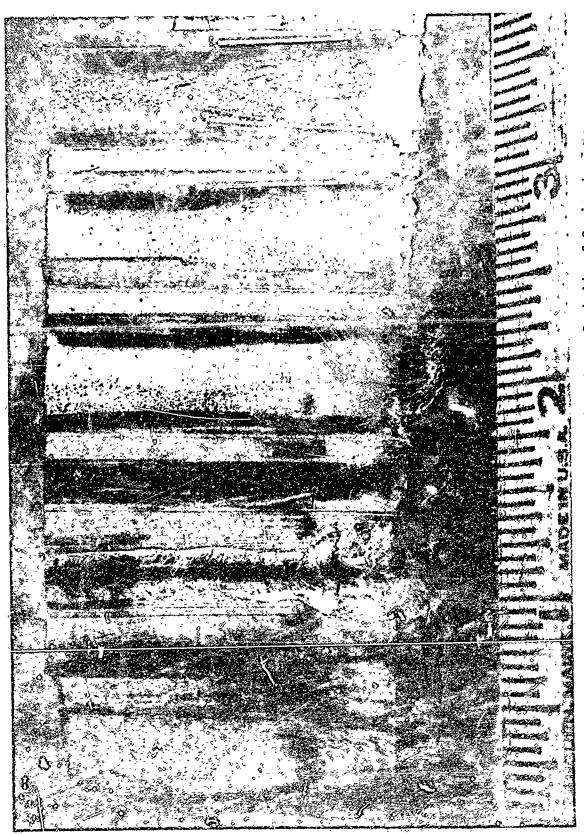
7

- a. Visual and Radiographic Investigation. Visual and radiographic examination of the tank revealed 10 specific areas of major concern. These areas showed cracks or metal separation and were cut out of the tank for further investigation. Specific location of these areas can be correlated from Table III, and are described next.
- (1) Cutout A. Cutout A revealed cracks alongside the aft tank barrel to lower Y-ring circumferential weld next to a weld junction in a repair weld area (Fig. 50). The backside of the crack area (Fig. 51) showed a discoloration on and around the weld, and a substance appearing like scale was found on the truss core and face sheet; mismatch was apparent.
- (2) Cutout B. Cutout B revealed an open crack alongside the edge of a repair, and designated Specimen 3 (Fig. 52 and 53). Other cracks, designated Specimens 2, 4, and 5, were discovered alongside the aft tank barrel to lower Y-ring circumferential weld. Again, mismatch was apparent. The backside of the cutout showed discoloration and a scaly substance on the surface (see Fig. 54 and 55). Figure 56 is a magnification of the weld bead front side in the Specimen-5 area showing the crack alongside the weld edge.
- (3) Cutout C. Cutout C was a complete cutout of the 42.5-in. crack alongside the aft tank barrel to Y-ring weld that resulted in test failure. Figure 57 shows the overall cutout, and Fig. 58 and 59 show the terminations at each end of the crack area, both of which terminate at weld junctures. One actually crossed over the juncture a slight distance (Fig. 59). The fracture surface appeared to be a brittle failure starting in the area of Specimen 6 with a tearing action evident on both extremities of the crack. In the process of cutting out the section, the bead portion of the specimen distorted when relieved, and mismatch was evident all along the cutout.
- (4) Cutout D. Figure 60 shows an overall view of Cutout D with the aluminum patch still in place on the aft tank to lower Y-ring weld. Figures 61 and 62 are a magnification of the backside surface of the patched area showing the two repairs, discoloration, and bent truss core. The leaking area was visible (Fig. 62) on the right side of the repair area at the crack stopdrilled holes.

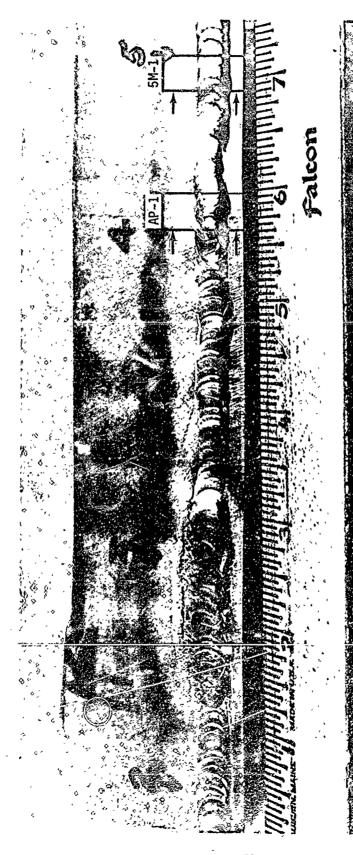
TABLE III Specimen Designation	Description of defect	Crack repair at crossover weld cracked during test.	Crack extension of Specimen 3 area.	Crack wide open around edge of repair weld.	Grack extension of Specimen 3.	Crack extension of Specimen 3.	Weld split open for 42.5 in. between two crossover welds.	Crack propagated during Condition-l test.	Cnack propagated during test in repair area.	Crack in parent metal repair weld.	Gracked during test.	
	X-ray footage	8 ft	9 ft 6.5 in.	9 ft 7.5 in.	9 ft 10.5 in.	9 ft 11.5 in.	15 ft 9 in. to 20 ft	29 ft 8 in.	15 ft 10 1/4 in. to 15 ft 11 3/4 in.	,	28 ft 2 in. to 28 ft 4 in.	these welds
	Weld designation*	T6 (aft tank barrel to lower lower Y-ring circumferential weld)						T2 (aft cir- cumferential weld of for- ward barrel to upper tank attachment	Parent metal	F13 (forward dome to Y-ring circumferen-tial weld)	designations for thes	
	Location (deg)	114 Ref Fig. 27	96 Ref Fig. 27	95 Ref Fig, 27	92 Ref Fig. 27	91 Ref Fig. 27	336.5 to 23.5 Ref Fig. 27	326.5	20.5 to 22 Ref Fig. 28	110 Ref Fig. 29	239 to 241 Ref Fig. 30	Marietta
	Cutout identification	A Ref Fig. 22	B Ref Fig. 22	B Ref Fig. 22	B Ref Fig. 22	B Ref Fig. 22	Ref Fig. 23	D Ref Fig. 24	Ref Fig. 23	F Ref Fig. 25	G Ref Fig. 26	ď FI3 are Marcin
	Specimen number		2	m	4	ល	9	7	∞	Ó	10	*T6, T2 and



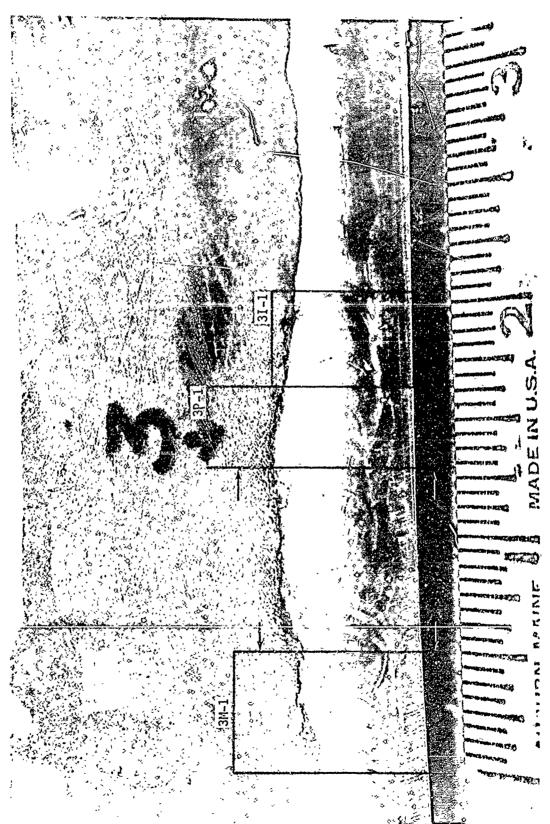
Specimen No. 1 (Cutout A) Showing Cracks Alongside Repair Weld at Junction Figure 50



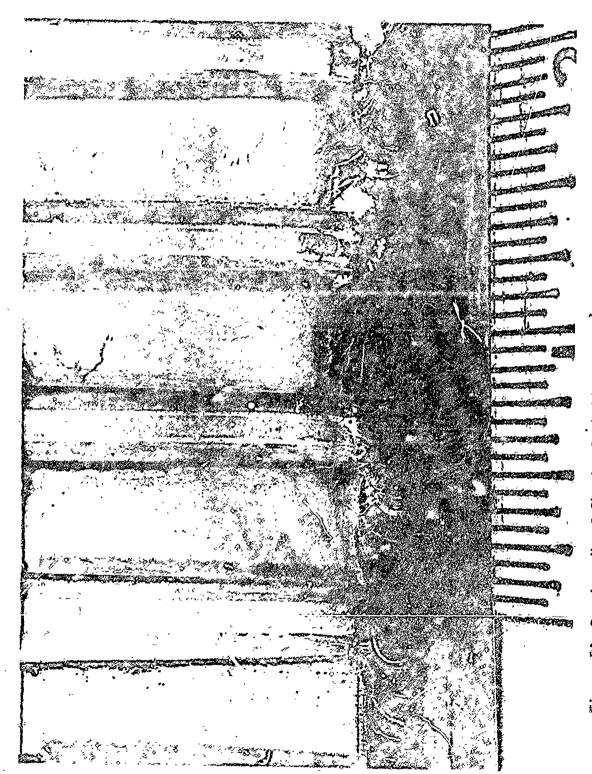
Specimen No. 1 Showing Repair Weld on Backside of Conjugate Faire Sheet with Surface of Material which Appears to be Scaled Figure 51



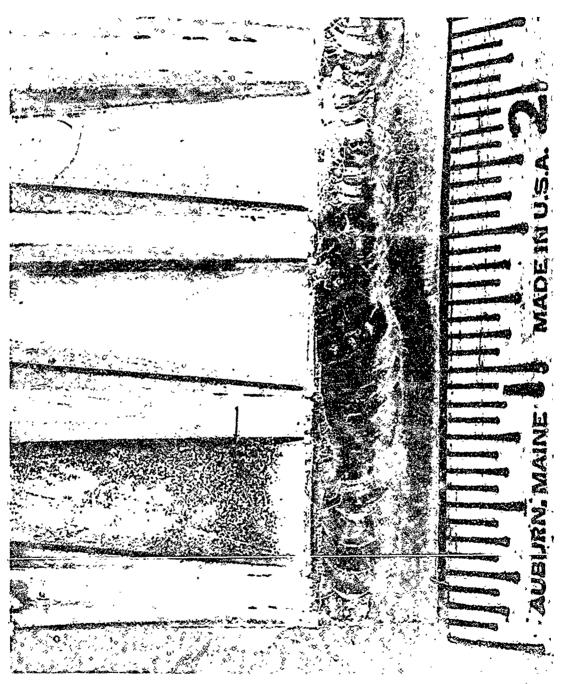
4 and 5 (Cutout B) Showing Loca-Overall View of Specimen No. 2, tion of Specimens to Wide Repair



Specimen No. 3 Showing Crack Alongside Repair Weld on Face Sheet of Conjugate Figure 53



Specimen No. 3 Showing Backside of Crack Alongside Repair Weld with Discoloration, and Particles on Conjugate Structure which Appear Scaled Figure 54



Specimen No. 4 and 5 Showing Backside of Weld with Scale Remains on Backside Conjugate Face Sheet (arrow) Figure 55

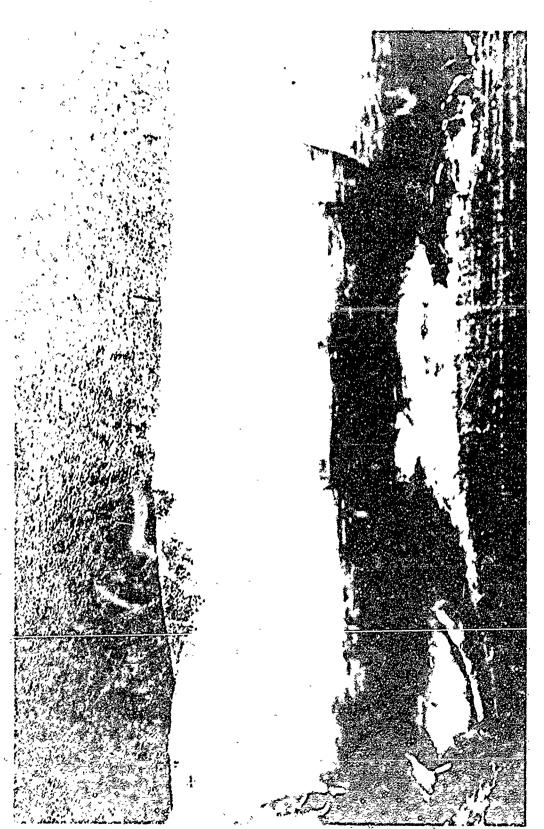
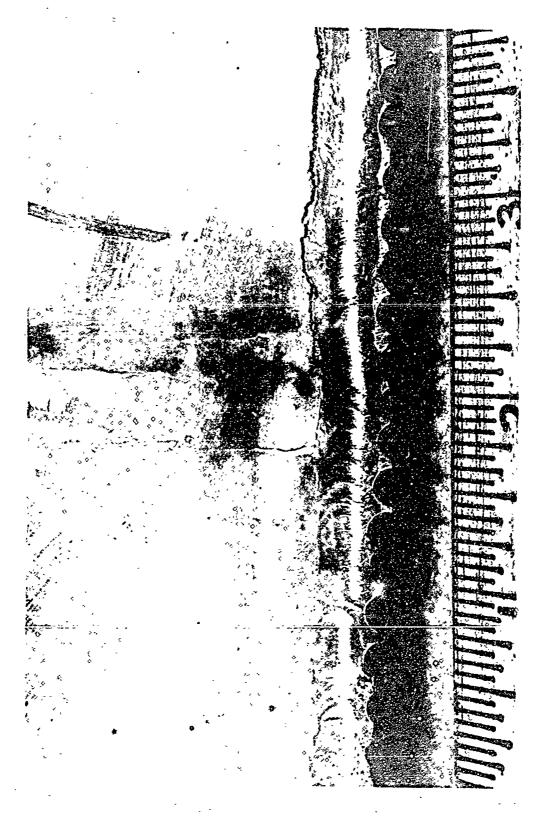


Figure 56 Photomacrograph (10X) of Weld Bead in Area of Specimen No. 5 Show-ing Cracks at Edge of Bead (arrows)



Figure 57 Specimen No. 6 (Cutout C) Showing Overall Extent of Crack 42.5 in. Long



Termination of Crack at Crossover Weld at One End of Cutout C Figure 58

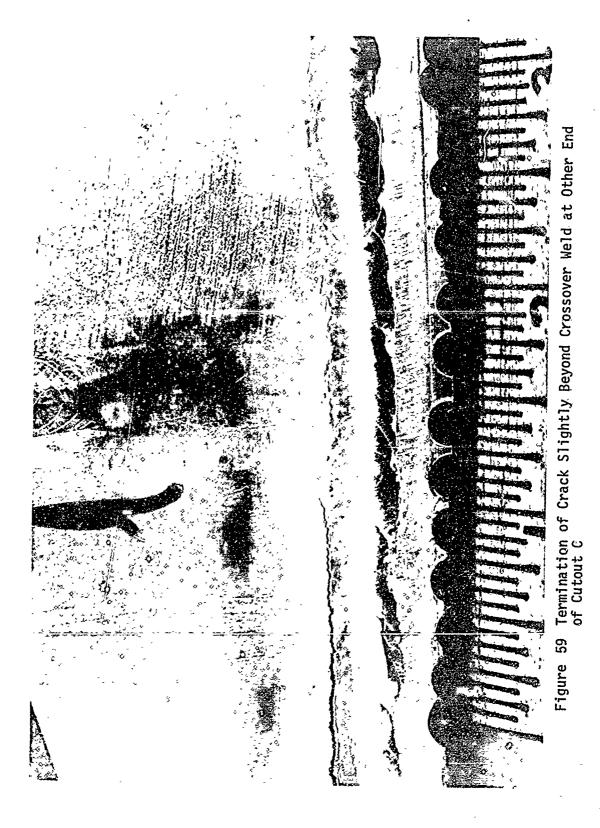
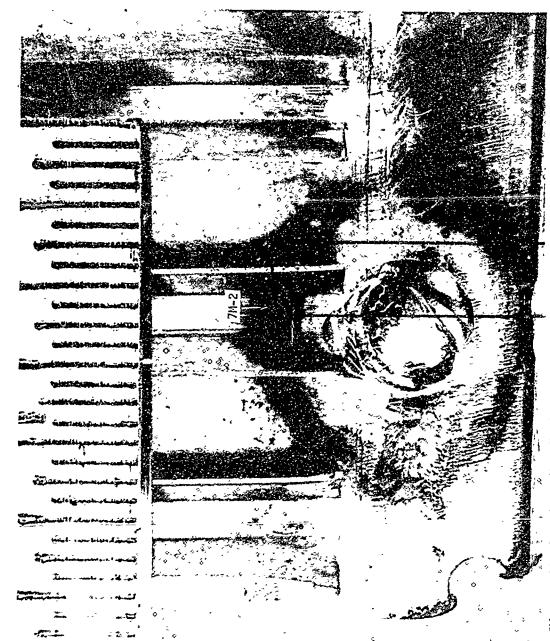
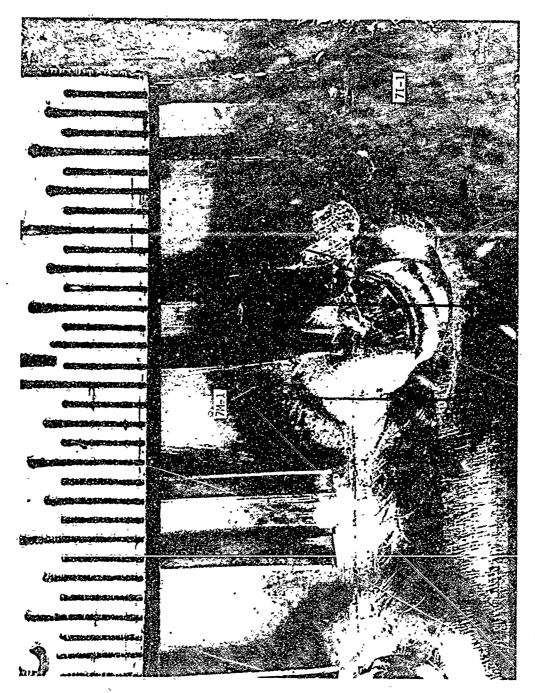




Figure 60 Specimen No. 7 (Cutout D) Showing Adhesively Bonded Aluminum Patch on Front Side of Repair Areas

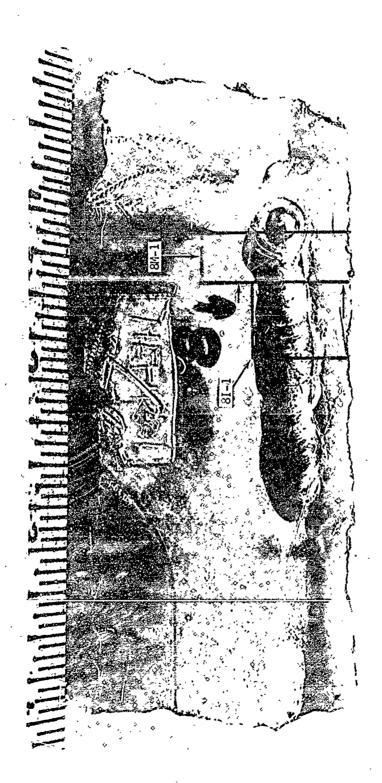


Specimen No. 7 Showing Discoloration on Backside of Conjugate Face Sheet and One Repair Area

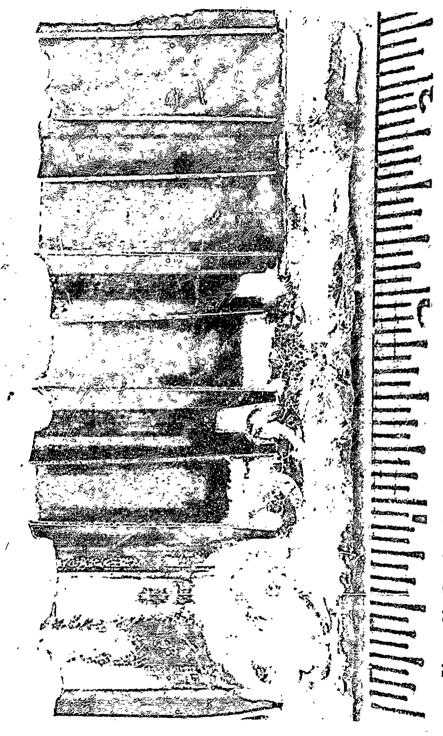


Specimen No. 7 Showing Discoloration and Truss Core Deformation on the Backside of Conjugate Face Sheet and the Other Repair Area Figure 62

- on the forward barrel to upper tank attachment ring weld at a weld junction. The cracks shown on x-ray were not evident visually on the front side of the specimen. However, they were visually found on the backside of the face sheet, along with extreme discoloration and heat checking (Fig. 64). The cracks were generally located around the foot of the truss core where the repair weld ran into the truss core (Fig. 65). Figure 66 shows lack of fusion in the centerline of the weld.
- (6) Cutout F. Cutout F (Fig. 67) revealed cracks around the stop end of a repair weld in the parent metal. These are shown on the front side of the face sheet in Fig. 67, and on the backside in Fig. 68. The backside of the repair area was extremely discolored, and the truss core members were severely bent. A scaly substance was evident on the inside surface of the face sheet and the truss core.
- (7) A 2-in. crack was observed on Cutout G (Fig. 69) running alongside the dome to Y-ring weld. This area had been built up with weld bead to compensate for mismatch in the area. The crack is actually at the fusion zone of the weld as observed on the reverse side (Fig. 70).
- (8) Mismatch was prominent in crack areas, and percent approximations were taken from the mounted specimens where possible. Discoloration was prominent in crack areas and severe in repair areas, up to a whitish grey color. This indicates poor cover during repair welding or a contaminated surface with a resultant high oxygen pick-up. The original welds were generally made within an area where the surface of the face sheet had been milled clean during the milling of the truss core in the weld areas. The repair welds were generally too wide to stay within this milled area, making an effective repair even more difficult. The inside surface of the face sheets and the more prominent truss core surfaces had an adhered substance which looked like metallic scale. The scale was probably a combination of iron, iron oxide, and stabilized alpha.
- b. Mismatch Determination. The weld joint mismatch was calculated as the total offset measured x 100, divided by the thickness of the thinnest joining member. Three calculations were made from data taken from that presented in Fig. 71, 72, and 73.



Specimen No. 8 (Cutout E) Showing Repair Area on Front Side of Conjugate Face Sheet Figure 63



Specimen No. 8 Showing Discoloration and Heat Checking on Backside of Repair Area of Conjugate Face Sheet Figure 64

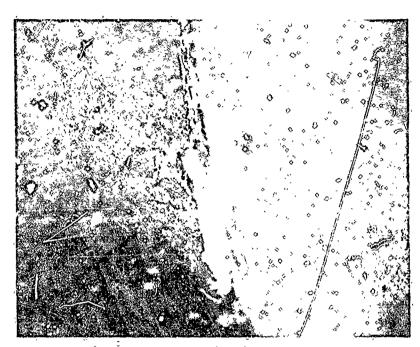
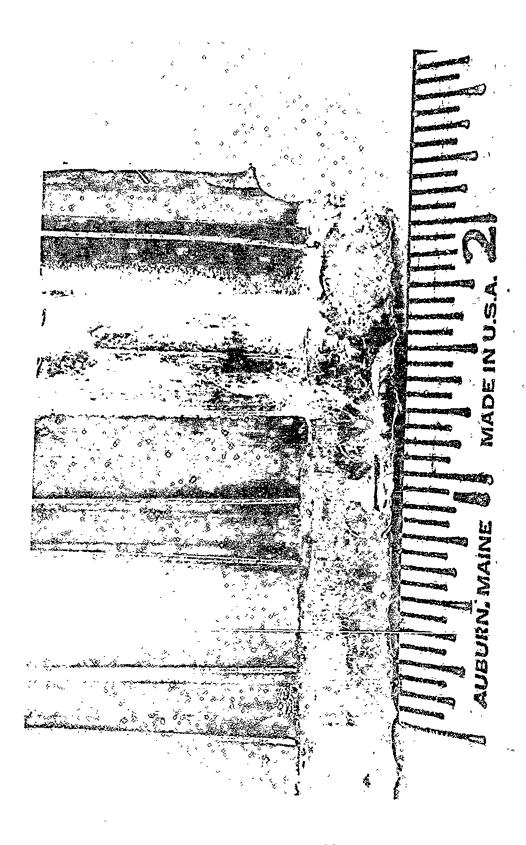


Figure 65 Photomacrograph (10X) Showing Surface Crack in Parent Metal at Base of Truss Core Next to Repair Weld of Specimen No. 8



Specimen No. 8 Showing Lack of Fusion in Center of Weld on Backside of Other Conjugate Face Sheet Figure 66

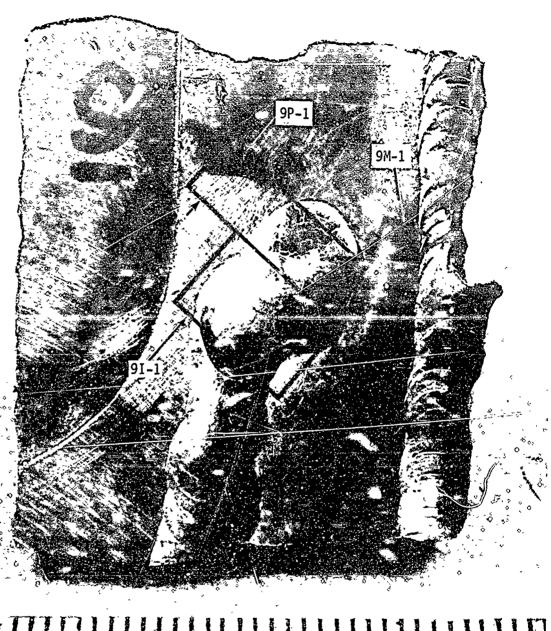




Figure 67 Specimen No. 9 (Cutout F) Showing Repair on Face Sheet of Conjugate Structure

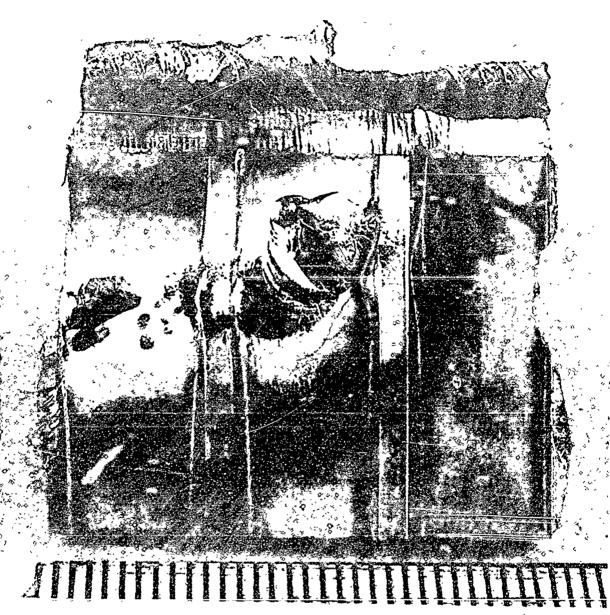


Figure 68 Backside of Specimen No. 9 Repair Showing Cracks Alongside Repair, Defermed Truss Core, and Discoloration

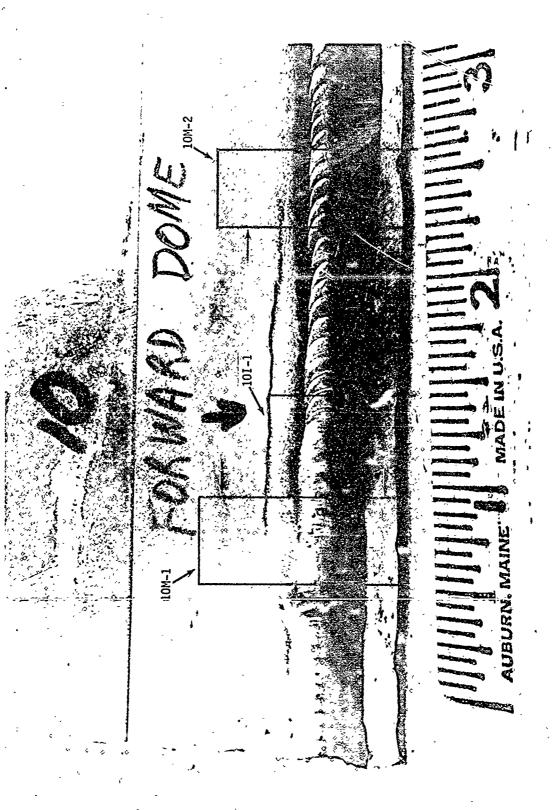
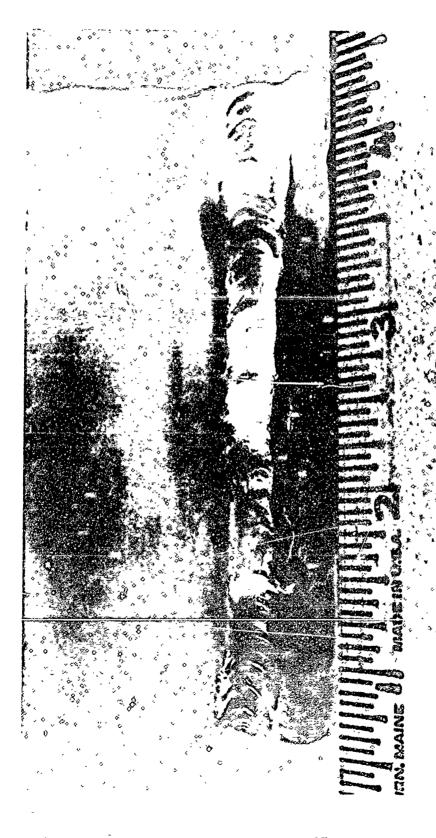


Figure 69 Specimen No. 10 (Cutout G) Showing Crack in Forward Dome



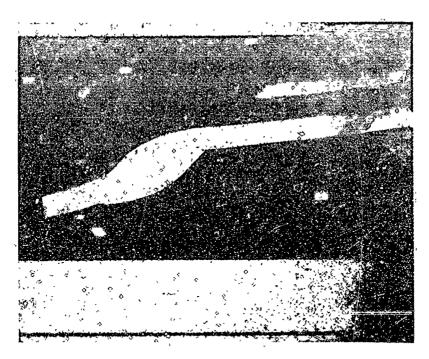


Figure 71 Photomacrograph (5%) of Cross Section of Conjugate Face Sheet Weld Area of Specimen No. 1 Showing Approximately 150% Mismatch of Weld Joint



Figure 72 Photomacrograph (5%) of Cross Section of Forward Dome Weld Area of Specimen No. 10 Showing Approximately 300% Mismatch of Weld Joint

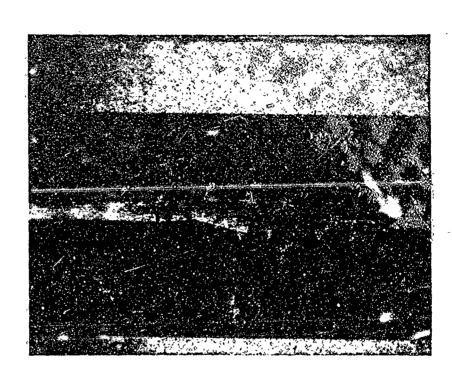


Figure 73 Photomacrograph (5X) of Cross Section of Specimen No. 6 Showing Approximately 50% Mismatch of Weld, Just Outside of Fracture Area

Following are the results of those calculations:

- 1) Specimen 1 mismatch is 150%;
- 2) Specimen 10 mismatch is 300%;
- 3) Specimen 6 idsmatch is 50% (Data for this mismatch was taken from a cross section at one extreme end of Cutout C, since none could be taken in the center of the cutout, and the measurement of 50% was less than that observed in the middle of Cutout C).
- c. Metallurgical Investigation. Microstructural and microprobe examination of cross sections of the cracked areas revealed, in most cases, an oxygen enriched stabilized alpha layer on the inside surface of the conjugate face sheet, and on the truss core as far as 3 in. away from any weld. (The length of the specimen measured parallel to the truss core). The stabilized alpha layer appeared very brittle as evidenced by crack starters in the layer, with some extending below the layer. This condition is clearly shown in Fig. 74 through 80. The condition appeared most prominent around the area of initial failure in Specimen 6. Microprobe analysis (Table IV) showed a very high oxygen content in these specimens, even in the truss core at the opposite end of the specimen. Weld dilution did not appear to be significant in contributing to the failure.

If this oxygen rich stabilized alpha layer is removed from the surface by milling in sufficient width, welding would present few problems. However, if the weld bead becomes wide enough, as in the case of repair welds, welding will occur over this layer and would have no ductility around the weld. With the addition of discontinuities such as mismatch, plus resultant locked in stresses, premature brittle failure will occur.

4.: PROCEDURES

The failed tank was examined visually and radiographically to determine the extent of failure and cracks that were of major concern. Seven areas were cut out of the tank for further examinations previously described. Approximately 20 cross sections were taken out of these seven areas. The cross sections were mounted and polished for macro and micro examination of the weld and parent metal condition around the areas of concern, including both the conjugate face sheet and the truss core. In addition, six of these cross sections were sent to Rocky Mountain Technology in Golden, Colorado for extensive electron microprobe analysis of weld dilution (iron and oxygen content within several areas of the cross sections).

Table IV Microprobe Analysis Results from Rocky Mountain Technology, Bolden, Colorado

-	DĮ.	olden,	LOIDT	aao			
Specimen Point			-	cent			
	<u> </u>	-	+	A		į ö	
1 P-1			4.45	}	0.2		Near one end of weld
}		2	2.40	•	0.27	1	
		3	2.37	1	0.23	ı	į
		4	2.49	ŧ	1.63	1	}
		5	2.28	ł	0.24	· }	
		6	1.97	1	0.20	- {	<i>1</i> 1
C		7	1.26	1	Į ···		O Centèr of Weld
		8	1.39	i -		3	•
1	ı	9	1.55	1		ì	
1		10	7.00	1	}	1	
	l	11 ⁻ 12	4.98	1	1	i	O Base metal
		13	i	3.26	1	1 11.0	0
}		14	4.08	1		3	
}	ŀ	15	4.0	3.54		1	
4 P-1		1	4.0	3.80	0.13	5.0	
1	- 1	2	2.17 1.28	7.12	0.24		Upper end of bead
Į.		3	1.68	3.10	1		
}		4	1.67		0.27		
	ľ	5	4.72	5.2	0.25		
į		6	4.24	5.2	0.35		Base metal
9 P-1	十		4.82		0.34	-	
	1	2	5.96		0.48	t	α case
3 P-1	寸	1		1.80	0.48	3.13	Base metal
	ľ	2	2.04		0.22	ļ	21-7-1
	Ì	3	- 1	2.17			We1d
	j	4	4.22		0.17	ľ	
		5	4.78		0.19	ľ	Base metal
l		6	ı	6.27	V.13	}	is increase increase
	4	7	l	5.90		,	
	1		3.92	1.43	0.18	9 00	α case
	1	1	4.11	1.55	0.19		Base metal
6 M-3	十	-			9,13	0.00	nase nerg
Truss		- 1	2.44	3.7	0.24	20 10	α çase
core	1	1	- 1	3.3			gase metal
6 M-1	十			3.02			Fracture edge
-	_	ŀ	1	4.17	- 1		Base metal

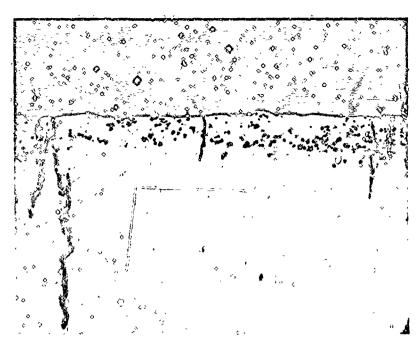


Figure 74 Photomicrograph (175X) of a Cross Section of Specimen No. 5, Unetched, Showing Cracks Extending from a Stabilized Alpha Surface Layer into the Base Metal, Adjacent to the Weld Bead

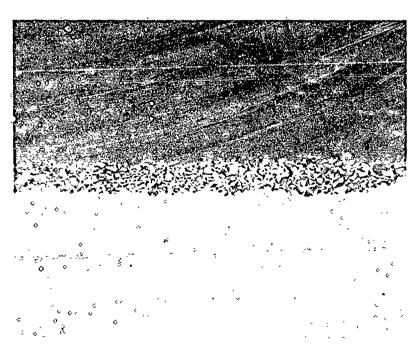


Figure 75 Photomicrograph (200X) of an Area from the Same Specimen No. 5 Mount, Slightly Etched, Taken Farther Away from the Weld Bead Showing the Same Stabilized Alpha Layer with Crack Starters



Figure 76 Photomicrograph (200X) of Parent Metal Cross Section of Specimen No. 6 Fracture Area Near Weld Bead, Showing Cracks Extending from Stabilized Alpha Layer into the Parent Metal of Conjugate Structure Face Sheet (Sample Slightly Etched)



Figure 77 Photomicrograph (300X) of Parent Metal Cross Section of Another Specimen No. 6 Sample (Same Condition as in Figure 63; Sample Slightly Etched)

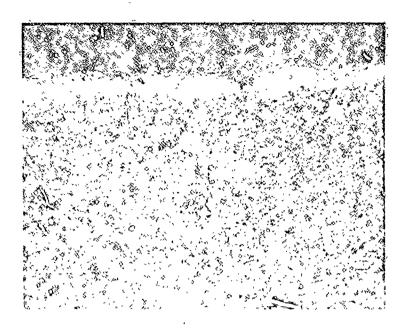


Figure 78 Photomicrograph (250X) of Parent Metal Cross Section Away from Weld Bead and Fracture Area of Specimen No. 6 Showing Crack Starters in Stabilized Alpha Layer of Conjugate Structure Face Sheet (Sample Slightly Etched)

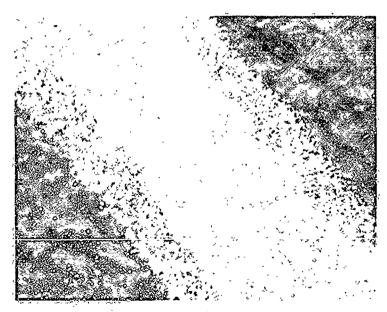


Figure 79 Photomicrograph (200X) of Truss Core Section 3 in. Away from Weld Bead and Fracture of Specimen No. 6 Showing Deep Stabilized Alpha Layer on Both Sides of Truss Core (Sample Etched)

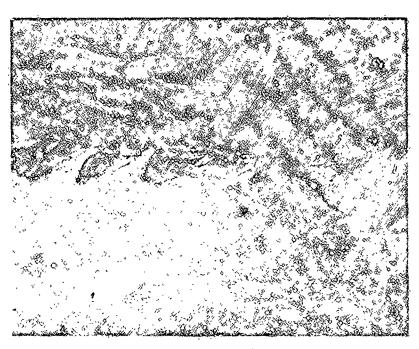


Figure 80 Photomicrograph (200%) of Cross Section of Crack Area of Parent Metal of Unetched Specimen No. 9 Showing Cracks Extending from Fragmented, Stabilized Alpha Layer into Parent Metal

APPENDIX I

Results of Inspection of Conjugate Tankage

Repair Proposal (Final)

This appendix is a reprint of Martin Marietta Technical Report FRPL-TR-150.

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ABSTRACT

A number of significant discrepancies have been identified in the pressure vessel and skirts of the conjugate tankage assembly, as a result of the detailed inspection specified by our amended contract with the Air Force.

It is recommended that the structure should not be subjected to the loads and pressures specified in Appendix I to the contract "Verification Testing of Conjugate Tankage" without substantial rework and/or replacement of components.

Three repair plan alternatives are offered along with attendant modifications to the original test program, to provide the Air Force with the information necessary to select a plan that will satisfy the intent of the contract.

Plan I involves maximum repair and no changes to the original test program. Plan II results in fewer repairs and a modification to the test program to maintain the same level of confidence for successful completion. Plan III involves minimum repairs and one additional minor change to the test program to minimize the increase in the probability of a premature failure.

The first repair plan requires replacement of both the common and forward domes; the repair of local weld discrepancies, holes resulting from sample plugs taken for examinations, and the crack in the inside skin of forward barrel; the modification of a structural shim at the aft skirt attachment station; and an increase in the size of skirt hi-shear rivets. The original test conditions may be implemented following successful completion of these repairs.

The second plan is the same as the first except the common dome, instead of being replaced, would be effectively removed by cutting a large hole in it. Some modification to the test program is implied in this case because structure essentially becomes one tank rather than two.

The third plan is the same as the second except the forward dome will not be replaced and local weld discrepancies will not be repaired. This plan results in further modification to the test program because of the reduced confidence in structure capability.

The Martin Marietta Corporation recommends that Plan III be implemented along with two additional test conditions. This course of action will provide a maximum amount of data on the structural capability of roll diffusion bonded structure, while minimizing the cost and risk involved.

The proposed additional test conditions are explained in this report to show that the original intent of the conjugate tankage test program will not be compromised by this approach.

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SECTION I

LIST OF DEFECTS AND THEIR EFFECT

SKIRT AREAS

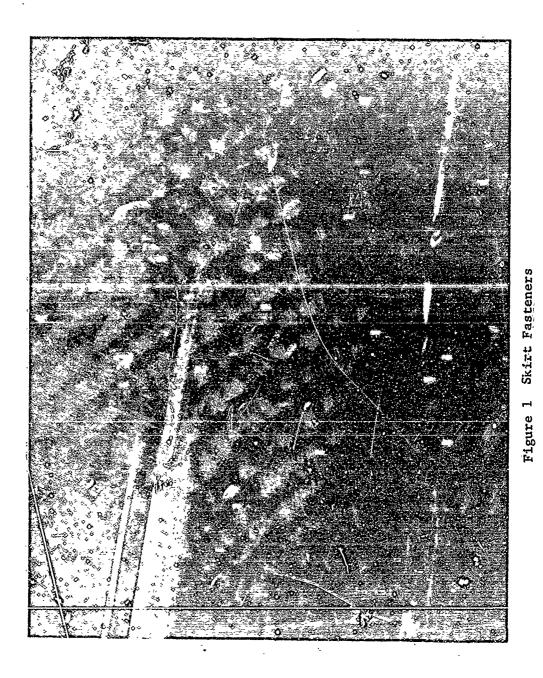
On both forward and aft skirts there are 1/8-in. hi-shear rivets attaching the longitudinal corrugated sheet to the circular channel extrusions on both ends of each skirt. The joint is shown on Fig. 1. To attain sufficient strength required to sustain a load compatible with the test requirements, 1/4-in. hi-shear rivets must be installed. On the aft row of the forward skirt, the attachments must be countersunk to avoid impingement on the dome as shown in Fig. 2.

When the aft skirt was removed, a 0.10-in.-thick peripheral shim was found between the tankage and the tang of the aft skirt. The shim is shown in Fig. 2. The shim is not shown on the drawings we have received. To reduce the bending in the attachment at the joint, the shim will be fastened to the skirt tang by bonding and mechanical attachments.

2. FORWARD DOME

Radiographic inspection of forward dome welds revealed potential problems in several areas. The manhole ing-to-dome weld (F12) has porosity throughout and a questionable sharp image for the entire length on the manhole ring side of the weld. Interstitial analysis and micro examination were run on plugs taken from the manhole ring-to-dome weld (F12) and from one dome segment weld (F5). The results of these tests can be seen in Table 1 and Table II. A plug from the manhole ring-to-dome weld (F12I) showed 3105 ppm 0_2 , which is in excess of 2000 ppm (maximum acceptable). The same plug showed excess H2 (206 ppm) and bordered on the high side of No (479 ppm). The high interstitial content is to be expected in spots, considering the excess porosity revealed by the radiographic inspection of this weld. Two additional plug samples have been taken to be run by Titanium Metal Corporation of America (TMCA). Micro examination of this weld showed vety large grain sizes. A typically large grain structure is shown in the photomicrograph of Fig. 4. The interstitial analysis of the plug from the dome segment weld showed a normal and acceptable interstitial content. (The sketch on the following page shows weld nomenclature.)

Weld Location Schematic



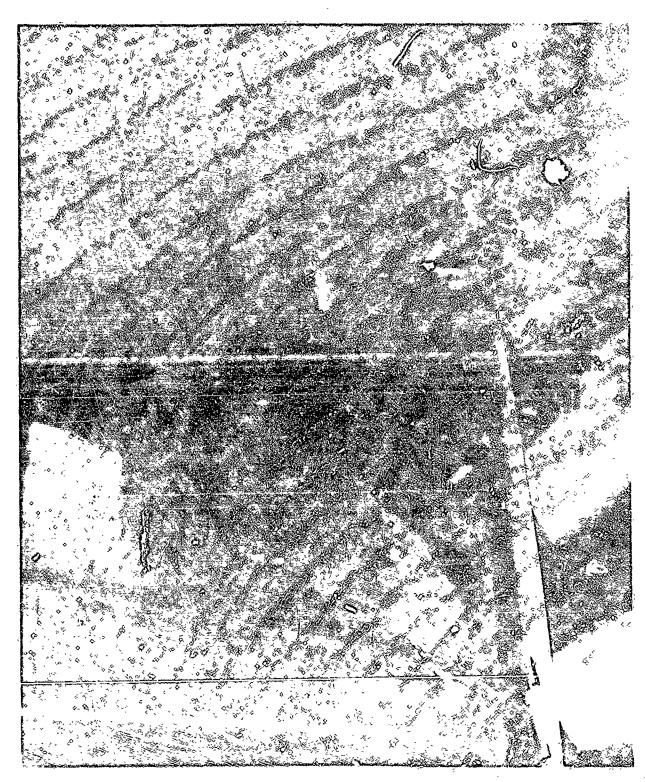


Figure 2 Skirt Fastener Interference with Upper Dome

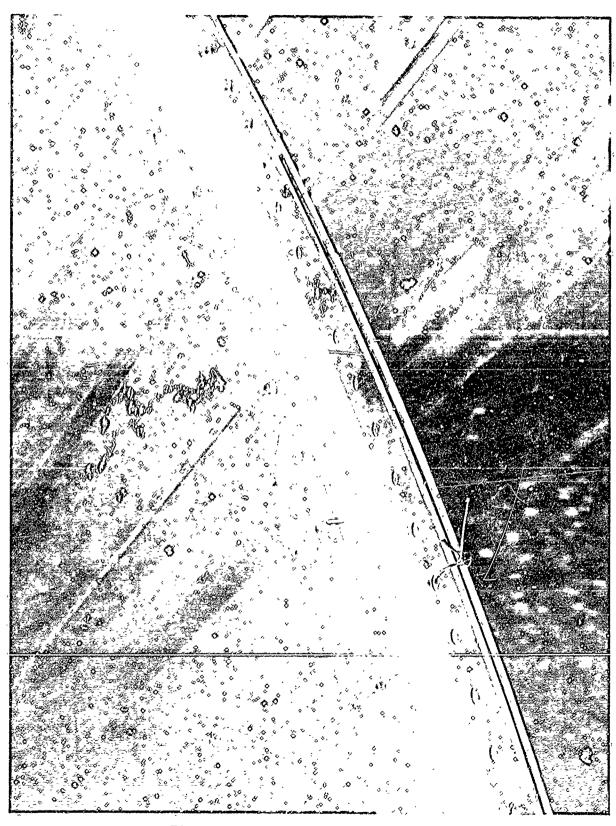


Figure 3 Aft Skirt and Partial Shim

Table I Test Results of Interstitial Analysis
(Reference Section on "Effect of Oxygen and Nitrogen")

Sample No.		Location	H ₂ (ppm)	O ₂ (ppm)	N ₂ (ppm)
۸.	Forward Dome				
	1, Manhole Ring Weld F12M F12I	4 ft 1/4 in. 3 ft 9 7/8 in.	109 206*	1754 3105*	292 479
	F12IA. F12IB F12IC 2. Gore Weld	3 ft 9 1/2 in. (Repeat) 3 ft 10 1/8 in (TMCA) 4 ft 4 3/4 in. (TMCA)	68	1660 1900 1700	275
	F51 3. Dome-to-Y-Frame Weld	2 in. from F12 Weld	49	1045	321
	F13I1 F13I2	24 ft 4 in. 26 ft 6 in.	72 32	1778 1376	331 209
3,	Forward Tank			,	
	1. Longitudinal Weld FB5M	5 ft 3 in.	67	1019	1.99
	Common Dome				
	1. Gore Weld C67A C61B C61C C61D	1 3/4 in. from C12 Weld 2 in. from C12 Weld (Repeat) 1 1/2 in. from C12 Weld (TMCA) 1 1/4 in. from C12 Weld (TMCA)	93 69	1148 11 3 0	1247* 528* 390† 900*
	2. Dome to-Y-Frame Weld C1311 C1312 C1312A C1312B	8 ft 8 in. 3 ft 8 in. 3 ft 10 1/2 ir (Repeat) 3 ft 8 1/4 in. (TMCA)	39 50 71	1358 2884* 1349	144 1339* 553* 760*
).	Aft Tank			·	
	1. Aft Barrel to Cone Weld T6M2	29 ft 6 5/8 in.	77	1305	164
	Aft Cone 1. Stringer to Cone Weld				
	Al5M 2. Cone to Lower Manifold Weld	1 ft	49	983	127
	A18M1 A18M2 A18 I1 A18 I2	15 ft 8 in. 15 ft 8 1/2 in. 18 ft 11 in. 22 ft 4 in.	63 69 40 50	1157 1122 1460 1325	186 152 211 215
•	Test Panel			2020	
	1. Test Panel Butt Weld T3M		55	1619	164
			Acceptable Weld		
	,], [180	2000	500

^{*}These values above Martin Marietta Corporation acceptable weld limits.

[†]This sample run on both parent material and weld.

Table II Results of Micro Examination of Weld Plugs

**

\$4. ***

TO THE SECOND THE PROPERTY OF THE PROPERTY OF

(Reference Section on "Platelet and Grain Growth")

- Very large grains.

FB5M

Continuous platelets in grain boundaries - Very large grain boundaries similar to A18M2. would yield welds with low ductility. A18M1

A18M2 - Worked surfaces on the weld. Very large grains.

F12M - Very Targe grains.

T6Ml - Very large grains.

Also intergranular attack on inside sur-Bond appears good, but there is stabi-- A cross section of a diffusion bonded area. lized case to a depth of one to two grains. face to a depth of 0,0016 in, FB4M

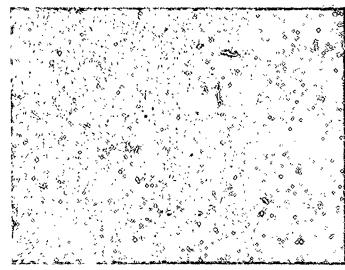
A15Ml - Reasonable grain size, good weld.

- Same as Al5M1 except on the penetration side of the bead there is a layer of worked metal to a depth of 0.003 in. C13N2

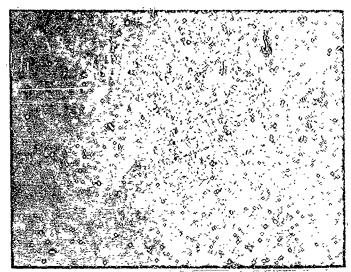
Heavy platelets in grain boundaries. Crack apparently along a grain boundary, hot $^{
m J}$ Cl3M1 - Large amounts of scattered fine porosity, indicating high gas (interstitial content

F13M1 - Large grain size. Otherwise acceptable.

Otherwise acceptable, Large grains. Mount from Panel - Large inclusion 0.005 in across.



(a) Photomicrograph at 50X Showing a Typically Large Grain Structure, Ti-6Al-4V Weldment (Sample A182M).



(b) Photomicrograph at 50X Showing a Typically Average Grain Structure, Ti-6A&-4V Weldment (Sample C13M2)

Figure 4 Photographs Comparing Average and Large Grain Structure

The radiographs of two dome segment welds (F6 and F7) indicate an appreciable thickness variation between one panel and the other. Vidigage measurements indicated the panels to be with the drawing tolerances on thickness.

An indication of pitting along the land/membrane step adjacent to weld F3 was detected on the radiographs and then visually verified. The pits go into the thin membrane area, and in addition there is a bleed out of the pits by dye penetrant inspection. A contour casting was taken of the pit area and the pit was found to be approximately 0.015-in. deep. Vidigage measurements were taken around the pit area. The thick ere remaining does not indicate by analysis that a potential problem exists for the pressure requirements of this dome. Further evaluation by nondestructive testing did not indicate a crack problem.

When the forward skirt was removed, a visual examination of the dome-to-Y frame weld revealed excessive mismatch (Fig. 5 and 6). A contour casting of this area was taken and the amount of misalignment was measured as approximately 0.200 in. (300% of welded material thickness). The weld was made with what appears to be four manual passes, two inside and two outside. Interstitial analysis was run on plugs taken from the weld (F13). The results of this analysis are within the acceptable limits (Table I). Micro-examination of a plug from weld (F-13) showed large grain size but no detrimental platelets exist in the grain boundaries (Table II). Therefore normal weld ductility is highly probable. The radiographic inspection of this weld with the skirt removed did not reveal any rejectable flaws. Data do not exist for determining the capability of a joint with this amount of misalignment. Therefore, the value of pressure established as a safe level for the rank contai ing this discrepancy is based on judgment alone.

3. FORWARD TANK BARREL

A large visual crack exists on the barrel IS, skin. Water from the truss core structure drained through this fracture when the tank was rotated. Visually, and on the radiograph, this crack measures 2 in. in length. This crack is shown in Fig. 7.

The radiograph of the longitudinal barrel weld FB4 indicates a 1-in. gouge or part-through crack perpendicular to the weld in the parent material. A plug was taken from the area and examination showed no detrimental defect in the area. Interstitial analysis of the plug also indicated no high interstitials.

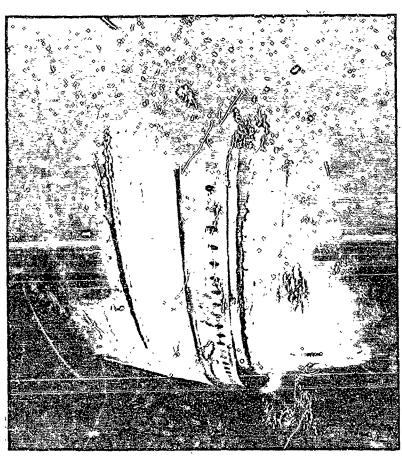


Figure 5 Forward Dome Joint Weld Mismatch

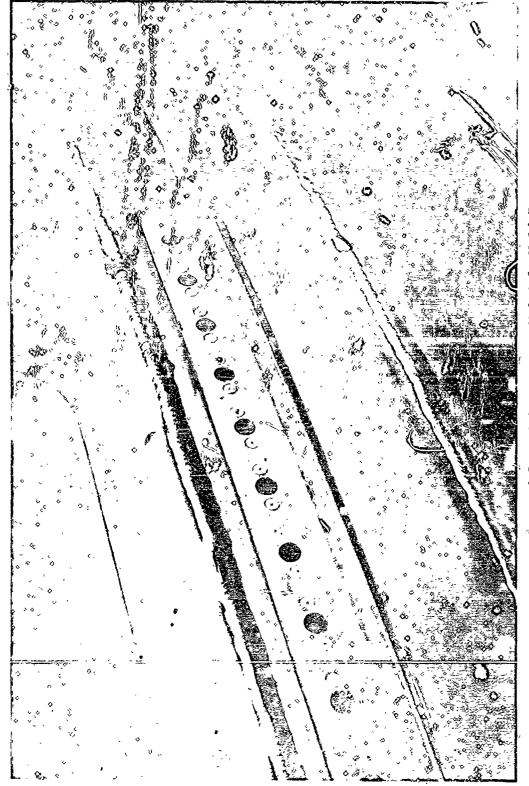


Figure 6 Forward Dome Joint Showing Multiple Weld Zass,



Figure 7 Crack On Parent Metal, Fuel Tank, Inboard Skin

On harrel weld FB7, heavy porosity is indicated on the radiograph for 2 in. near the fusion line of the weld. Disposition of this porosity depends on the repair plan selected. The radiograph on the forward circumferential weld (T1) indicates a questionable sharp image at a weld lap location. Angle radiographs indicate no detrimental defect in the area.

The radiograph on the aft circumferential barrel weld (T2) has a dense inclusion. Disposition of this inclusion depends on the repair plan selected.

The radiographs of the barrel welds indicate areas of gouged or cracked corrugation, possible corrosion and corrugations not wrallel to the longitudinal weld in the conjugate structure. Micro examination of a plug taken from the area showed no significant corrosion that would affect the integrity of the structure. Localized damaged corrugations should have no affect on the integrity of the structures for tests proposed. There are additional sharp radiograph images on FB2 and FB5 that are acceptable for the intended use of this structure.

4. COMMON DOME

The dome-to-barrel frame weld (C13) has numerous areas of multiple repairs. There are large cracks along the fusion line on the frame side of the weld in ten of these areas. These cracks are evident on the radiograph and one crack can be seen visually from the aft tank side of the weld. Visual inspection of the dome contour indicates a rippled condicion (Fig. 8) exists around the entire circumference of the dome to frame weld (C13). In addition to the rippled condition, three dome segments have bulges in several areas approximately 8 in. long by 2 in. wide by 1/16 in. deep.

The radiographs of the dome segment welds indicate a sharp image 2 in. in length at the land/membrane step adjacent to weld C11, a dense sharp image 1/4 in. in length at the edge of weld C10, and eccatches or gouges adjacent to weld C7. Dome segment weld (Co) contains porosity of an acceptable level.



Figure 8 Common Dome-to-Y-Frame Weld Showing Multiple Passes

Intersticial analysis results of plugs from the dome-to-frame circumferential weld can be seen in Table I (C13 weld). One plug (C1312) showed high θ_2 (2884 ppm) and high θ_2 (1339 ppm), both of which are above the maximum acceptable limits. Micro examination of plugs from the dome-to-frame weld showed average size grains; however, one plug showed heavy α platelets in the grain boundary, porosity, and indications of cracking.

Interstitial analysis results (Table I) of plugs from a dome segment weld (C6) both showed high N_2 content (1247 ppm and 528 ppm). Two additional plug samples have been taken to be run by TMCA. All of the specimens were taken from a weld repair area associated with discoloration.

The most extensive repair would require complete replacement of the common dome. On the other repair plans, however, these areas are not included in the repair.

5. CENTER BARREL

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The center barrel section is joined to the common dome frame by fillet welds, sometimes referred to as corner butt welds, both forward and aft ends. Both welds (T3 and T4) contain several areas indicated on the radiographs as cracks. Disposition of these cracks depends on the repair plan selected. On weld T3 the radiograph indicates a root lack of fusion image on approximately 75% of the weld. It is our judgment that the lack of fusion image on weld T3 is not detrimental.

6. AFT TANK BARREL

The radiographs of the barrel welds indicate porceity for 1 in. on longitudinal weld AB3 and lack of fusion on weld AB1 and the circumferential weld T6. Visual inspection also revealed flaws on AB1. Disposition of the porosity on weld AB3 and lack of fusion of AB1 will depend on the repair plan selected. By examining the plug, the lack of fusion image on weld T6 was confirmed to be acceptable.

The truss core structure has the same discrepancies previously discussed on the forward barrel. In addition, the aft barrel has three areas where the corrugation is missing or there is an excessively wide flat on the truss core construction. It is our judgment that this condition would not be detrimental for the proposed tests.

The visual check of the aft tank barrel revealed several areas of contamination, corrosion, and variation from specified contour. Internal and external surface contamination (both black and white deposits) was found on the barrel panels. The only problem this contamination may cause is in the area of weld repairs, and there it will have to be removed. The corrosion was discovered on the tank pressurization line and attaching hardware. The severity of the corrosion does not now warrant any concern. The junction of the longitudinal and circumferential barrel welds had been locally indented apparently during a crude sizing operation before making the circumferential weld. This local distortion will not cause any problem during testing, therefore, no further evaluation will be performed.

Dye penetrant inspection of the barrel welds revealed flaws on AB2, AB8, and T5 which were not verified by radiographs. Disposition of these areas will depend on repair plan selected.

7. AFT CONE

The aft cone stringers are all bowed inboard. The web on one stringer is bent on the aft end where the web is tapered, however, it can be easily repaired (Fig. 9). There is corrosion on the aft cone ring stiffeners, which does not present a problem at this time.

The circumferential cone weld (Al8) on the forward edge of the stringers has generally an overall poor appearance on the radiograph. There are areas of multiple repairs resulting in excessive wide weld beads, and a sharp image or gouge going into the parent material. Interstitial analysis results (Table I) of plugs from the cone weld (Al8) showed no excessive interstitial content. Micro examination of plugs from the cone weld showed generally large grains and some platelets in the grain boundaries. However, there was no evidence of the sharp image observed on the radiograph. There are areas of voids where the disposition will depend on repair plan selected.

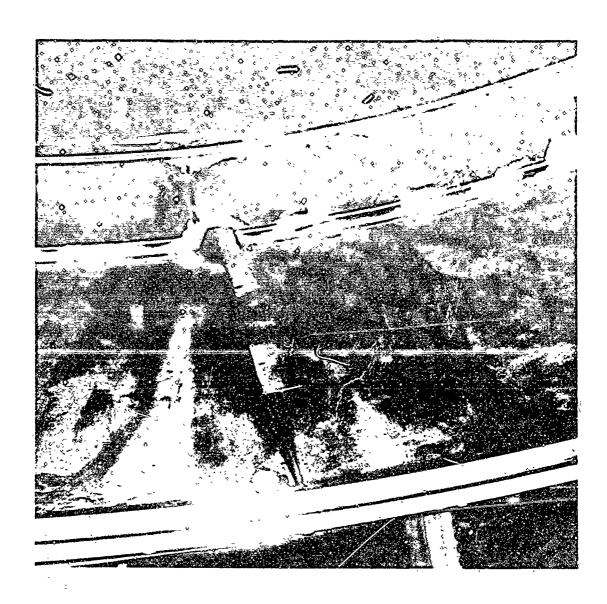


Figure 9 Bent Web Aft Cone Stiffener at Manhole

The cone segment welds (A2 thru A17) are excessively wide. On segment weld A15 there are other segment welds with similar images, but not as severe as A15. Micro examination of a plug from the A15 weld showed no defects that would affect the structural capability of the weld. Interstitial analysis results were a1so acceptable.

Dye penetrant inspection of the welds revealed a flaw on weld A9. The disposition of this area will depend on the repair plan selected.

Radiographic inspection on the aft cone welds Al9 thru A42 revealed no defects that would cause rejection.

8. CONJUGATE STRUCTURE PANEL SPECIMEN

An 8-in. strip was cut from the panel specimen. Visual examination of the strip revealed areas on the surface of the inner corrugations that appear to be intermetallic scale. Etch pitting was also evident around the scale-appearing deposite. Micro examination showed no deleterious effects from the scale. Interstitial analysis results showed an acceptable interstitial content in the weld adjacent to this scale and pits, indicating no effect on the welds.

9. EFFECT OF OXYGEN AND NITROGEN

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Weld color is usually a good indication of the quality of welding. The following color gradients show the quality of the welds:

Silver - generally a good weld;

Straw - normaily acceptable;

Blue - not usable in pressure application;

Purple - not for structural use;

Loose, powdery substance - unacceptable.

Cracking during welding cocurs in such alpha-beta alloys as Ti-6A1-4V alloys when the oxygen content approaches 0.3% (3000 ppm) or the nitrogen approaches 0.13% (1300 ppm). Greater than 2500 ppm 0_2 and greater than 700 ppm N_2 is not considered weldable because cracks may occur and ductility in the weldment will be lowered.

Normally, as the 0_2 and N_2 content increase, the strength increases and the ductility decreases. From 2000 ppm to 3000 ppm the strength increases by 50% and the ductility decreases by 500%. Similarly the fracture toughness of titanium alloys will be reduced by high oxygen content. A significant program would need to be performed to correlate the allowable weld mismatch with respect to absolute 0_2 and N_2 content since mismatch tolerance is a function of ductility. Plasticity is decreased with increasing 0_2 and N_2 contents.

PLATELETS AND GRAIN GROWTH

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Grain growth occurs readily when heat is reapplied to a weld area, as would be the case in repair welding or multiple pass welding, particularly without filler additions. In addition alpha platelets coagulate and grow in the prior beta grain boundaries. As the platelets grow and the grains grow to approximately the thickness of the material, ductility is drastically raced and cracking may occur, either on cooling from welding temperatures or from bending stresses imposed in service.

Since several of these welds on the conjugate tank have shown excessive mismatch, various degrees of discoloration, and high interstitial contents, brittle behavior can be expected during structural test of the tank.

^{*}H. K. Adenstedt: Handbook on Titanium. WADC Technical Report 54-305 Part A, September 1955.

[†]B. K. Yıl'f and S. A. Yudina: "Effect of Oxygen on the Mechanical Properties of Heat Treated Alloys AT3 and AT8." NASA TT-F-338.

SECTION II

REPAIR PLANS

The intent of these plans to present three separate repair approaches to correct the discrepancies found during the inspection cycle. The test plan loads and testing sequence will be changed to be consistent with the level of repair for each plan.

Plan I consists primarily of replacement of both the forward and common domes and repair of all weld discrepancies, including plug holes on the barrels and aft cone. Plan II is limited to the forward dome replacement, repair of weld discrepancies including plug holes and cutting a hole in the common dome to eliminate the possibility of a pressure differential across the dome. Plan III consists only of repairing the plug holes located on the forward dome, aft cone and barrel, and cutting a hole in the common dome. The rework of the fairt attachments, repairing the bent aft cone stringer web, and repair welding the crack on the forward barrel inside skin is common to all plans.

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The repair plans are outlined in the following Primary Data Sheets (Repair Process Plans).

<u> </u>	<u> </u>							
DATE	TITLE:			PAGE				
× 107160	REFAIR PROPOSAL COI	NJUGATE TANK		PART NO.	2615-930004			
POINT				CUSTOMER				
REV. B	SHEET NO. 1 OF 5	TOOLS EFFECTIV	e ship no.					
PLAN NO. I	PLAN NO. I - Replacement of Fwd and Common Domes and Weld Repair							
1. Pla	1. Place tank assembly in cut-off fixture T5-400000. Locate center of							
cn.	cutter at Sta. 343.28 and remove Fwd Dome. Deburr.							
No	te: Mooling to set-up Br	idgeport hea	d on T5-4000	000 fixture.				
2. Se	t-up and locate edge of c	utter at Sta	. 410.76 and	cut out Fw	d. manifold			
we.	ld. Deburr.			-				
3. Lo	cate edge of cutter at St	a. 414.81 an	d cut-out Ai	ft manifold	weld.			
: De	burr.		·					
4. Lo	cate and center cutter at	Sta. 412.02	. Cut out I	Twd. fuel ta	nk. Deburr.			
5. Lo	cate center of cutter at	Sta. 411.52	and remove of	common bulkh	ead. Deburr.			
Re	move sections from fixtur	··	:					
6. We	ld repair Fwd Barrel on F	B7 at 0"-1",	T-2 at 16	3", Plug rep	air on			
FB	-5 at 5'3", FB-4 at 2'7".	.FB-1 at 0".	<u>, , , , , , , , , , , , , , , , , , , </u>		······			
На	terial .050 6AL-4V Titani	um .						
	a. Purge Jaffee Metal section under repair area with argon for 24							
	hours. Purge through plug koles.							
	b. Clean surface of repair area per MRR-PR-211.							
	e. Set up torch and tr	railing gas s	hoe (existi	ag).				
	do Kanual weld repair per MRR-PR-211.							
e. Grind wold as required - do not grind parent metal.								
A. X-Ray								
ge Repair per MRR-PR-211 as necessary.								
7. Fwd Barrel open crack repair. (Parent material) Work with Item 6.								
Material .045 6AL-4V Titanium.								
a. Drill 1/8" hole at each end of crack.								
b. Ropeat Item 6 Operations a through g.								
PRIMAR	Y MANUFACTURING	WRITER	LCOND					
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DATE	TITLE:			PAGE			
707/39	REPAIR PROPOSAL CON	PART NO.	2615-93000				
CONTROL POINT				CUSTOMER	<u> </u>		
REV.	SHEET NO. 2 OF 5	TOÔLS EFFECTIV	/e ship no.				
8. Wel	d repair Aft Barrel on le	ocations AB-	1 at 0"-1",	17½', 21½',	29", 38",		
AB-	2 at 11", AB-3 at 2'11",	AB-8 at 30"	, T5 at 10'1	O", plug re	pair en		
T-6	at 29'4 7/8", and 29' 6	5/8".			·		
Mat	cerial .050 6AL-4V Titanio	um					
	a. Clean weld areas per	r MRR-PR-211			 		
·	b. Close off and purge	barrel with	argon for 2	hours.			
:	e. Set up torch and tre	ailing gas s	hoe (existin	g).			
	d. Manual weld repair	per MRR-PR-2	ll. Maintai	n gas flew	through		
	Jaffee Metal section	n.					
	è. Grind welds as requ	ired - do no	t grind pare	ent metal.			
	f. X-Ray			-	·		
	ge Repair per MRR-PR-2	ll as necess	ary.	· · · · · · · · · · · · · · · · · · ·			
9. Wel	ld repair Aft Cone at loc	ations A9 at	13" and A18	at 9". Pl	ug repair		
on	A15 at 1'2", and A18 at	15'8", 15'8%	", 18'11", s	ind 221411.			
Mai	terial .150 6AL-4V Titani	ua	-				
	a. Grind weld area - d	o not grind	parent metal				
	b. Clean for weld per	MRR-PR-211.			 //		
	c. Install back-up shi	eld on insid	e of cone (s	pecial) wit	h yacuum		
	holding fixture (ex	išting).	·····				
	d. Set-up torch and tr	ailing gas s	hoe (existin	ig).			
	e. Purge with argon fo	r 15 minutes	3 <u> </u>				
~	f. Manual weld repair	per MRR-PR-2	211.				
	g. Grind weld as requi	red - do not	grind parer	it metal.			
	h. X-Ray						
	ie Repair per MRR-PR-2	ll as neces	ery		740.00 Taring Managarian (1975)		
10. Wel	ld of Common Fulkhead to	Aft Date 1.		1	-		
PRIMAR	y manufacturing	WRITER	LEWISKI	Manup. 139.			
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107/. ₁	REPAIR PROPOSAL CON	JUGATE TANK		PÁRT NO.	2615-93000			
POINT	CUSTOMER							
rev. B	SHEET NO. 3 OF 5	TOOLS EFFECTI	VE SHIP NO.					
PLAN NO. I	No. 10 (continued)	-^	<u> </u>					
Mater	rial .140 6AL-4V Titaniu	um .						
	. Load in fixture							
 	(1) 2615-930006 Tank	Section -	Aft					
	(1) 2615-930010 Dome	- Common (GFP)					
<u>}</u>	o. Mill joining surface	es to match	125 or bet	ter.				
	c. Clean weld area per	MPP 55026.	 					
	d. Install back up bar.	<u> </u>						
	e. Set up weld torch ar	nd trailing	shoe.	,	· · · · · · · · · · · · · · · · · · ·			
	f. Weld sample	-						
,	g. Purge with argon 2 h	nours min.	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
1	h. Automatic weld per l	MPP 55026.		-				
	i. Clean weld area							
	j. X-Ray		 					
	k. Repair per MRR-PR-2	ll as requir	ed.					
ll. Weld	of upper tank assembly	to lower ta	nk assembly					
	rial .140 6AL_4V Titani	<u> </u>		- 				
:	a. Load 2615-93006, 2/i	15-93005 in	fixture.	,	<u> </u>			
<u> </u>	b. Mill joining surface	es to match	125 or bet	ter.				
	c. Clean weld area per	MPP 55026	·	-	and the same of			
	d. Install back-up	: <u>, </u>						
	e. Set-up weld torch a	nd trailing	shoe.					
	f. Weld sample	· · · · · · · · · · · · · · · · · · ·						
	g. Purge with argon fo	r 2 hours.			·			
	h. Automatic weld per	MPP 55026.			-			
·	i. Clean weld area			-				
PRIMARY	MANUFACTURING	WAITER	Linn	MANUT. RZP.				
	DATA Hibyta oorporation	DEA ENGA		APPROVED				
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107/69	REPAIR PROPOSAL CONJUGATE TANK	PART NO.	2615-93000
CONTROL POLIT		CUSTOMER	<u> </u>
REV.	SHEET NO. 4 OF 5 TOOLS EFFECTIVE SHIP NO.		~
PLAN NO. I	No. 11 (continued)		
	j. X-Ray		
<u> </u>	k. Repair per MRR-PR-211 as required.		
12. Wel	u of Fwd Dome to Fwd Tank		
Mat	erial .060 GAL-4V Titanium		
	a. Load in fixture		
	(1) 2615-930009 Fwd Dome (GFP)	_	<u> </u>
	(1) 2615-930004 Partial tank assembly		
······································	b. Follow Operations 19.b through 19.k. Use s	ame beck-up	bar.
13. We	d of Manifold Cover		
Mái	terial .062 6AL-4V Titanium		·
	a. Machine mating surface at Sta. 410.76 and	414.81 125	
	b. Clean per MPP 55026		
	c. Fit and install shroud to tank and strap	in place.	
	d. Produce (2) 1/2" holes in shroud at 90 an	id 180°.	~~~~ <u>~</u> ~~~~
	e. Purge through 1/2" holes 4 hours win. wit	h argon.	·
	f. Fusion weld, manual per MPP 55026. Start	weld in spl	ice.
	Maintain purge gas top and bottom of ring	ζ.	
	g. Grind as required - do not grind parent a	ietāl	
	h. X-Ray		
	i. Repair per MRR-PR-211 as necessary		
<u>"</u>	j. Plug 1/2" holes. Use back pressure of ga	as for last	eld.
	k. Grind wold as required		
``	1. X-Ray		
	m. Repair as necessary		
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POINT	, i				CUSTOMER	<u> </u>
EZV.	13	SHEET NO. 5 OF 5	TOOLS EFFECTIVE	/E SHIP NO.		<u>~_</u>
PLAN NO). I		-	·		
14.	Ski	rt Rework				
	1.	Remove all 1/8" HS48 Hig	h Shear Riv	ets on Fwd a	nd Aft Skir	ts (1440
		total), with 1/4" HS48 H	ligh Shear R	ivets.		
	2.	Replace 3/16" HS48 High	Shea rivet	s on splice	straps (720	places)
		with 1/4" HS48 High Shea	r riveks.	 		
	3.	Replace aft inside row of	of attachmen	t: (144 plac	es) on fwd	skirt
· .		with NAS1670 1/4" flush	jo-bolt.			<u>;</u>
15.	Aft	Cone Repair		 		
	1.	Repair 2615-930008-5 sti	iffner on da	maged aft co	ne.	
16.	Ski	rt Instalktion				
<u> </u>	1.	Install Fwd skirt using	existing bo	olts.	-	
	2.	Install Aft skirt by bor	nding existi	ng shims wit	h Aeroberd	#2119 and
		(2) flush rivets (5/32")) between es	ch splice bo	lt lecation	
	3.	Install skirt using exi	sting bolts.	•	· · · · · · · · · · · · · · · · · · ·	
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POINT		REPAIR PROPOSAL CO	JNU UGATE TAN	<u> </u>	CUSTOMER	
REV.	В	SHEET NO. 1 OF 3	JOOR ELLÉCI	VE SHIP NO.		
PLAN NO). II	<u></u>				
ī.	Place	Tank Assembly in cut-	off fixture	locate cent	er of cytter	at
	Sta.	343.23 and remove for	ward dome.			
2,	Aft (Cone - Repair 5/16" plu	ng holes on	115@ 1!2";	A18 @ 3' '8",	15.181/21,
, ,	18'1	l‼ & 22'4"; repair weld	defects on	A9 @ 13"; ₽	nd A18 @ 9"	
	Mate	rial .045 6AL-4V Titani	ium`			~ ~~~
•		a. Clean and grind wel	ld area per 1	MRR-PR-211.		
	., 1	. Install new back-up	o shield on :	inside of co	ne with vacu	ıum
	 	holding fixture (ex	cisting).			
······································		c. Set-up torch and tr	railing gas s	shoe.		
		d. Purge with argon fo	or 15 minutes	3.		<i>-</i>
		e. Manual fusion weld	per MRR-PR-2	211.		
		f. Grind weld as requi	ired - do not	grind pare	nt metal.	
		. x-ray	•		·	
3.		Barrel - Repair plug ar	es on FB4 @	2'7". FB5 @	513", and F	Bl Ø 0".
I	Penair	defects on FB7 @ 0"-1"		3 7	,	,
		41611.	7	1.255.	· · · · · · · · · · · · · · · · · · ·	1 4110
``	Mater	rial .045 5AL-4V Titans	1169			
	·	2. Set up and purge to		on 30 ou ft	hn fân 2h	house
		Purge through plug		<u>) </u>	• iii-• iun <4	
-,-,-,-,-,-				Pan Water and		3/4
		. Keeping argon flow	ruzougn Jai	ive netal ar	ea, clean we	TO ALEX
<u>5</u>	· · · · · · · · · · · · · · · · · · ·	per MRR-PR-211.		•	-	
<u></u>		Set-up torch and to		, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	
		i. Manual fusion weld				
		e. Grind weld as requi	ired I.D. of	tank - do no	ot grind par	ent metal.
		. X-ray	·			
	MARY	MANUFACTURING	WRITEZ		Manut. Rep.	
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SORTKOC	REPAIR PROPOSAL C	onjugate tai	ik -	PART NO.	261.5-93000		
POINT	CUSTOMER						
REV,	SHEET NO. 2 OF 3	TOOLS EFFECTIV	E SHIP NO.				
PLAN NO. II	(continued)						
4. Fwd	barrel open crack repair	(parent me	tal)				
Mate	rial .045 6AL-4V Titaniu	m .		·····			
8.	Drill 1/8" hole at each	end of crac	ζ,	···			
b.	Repeat Item 3 Operations	a through	f.				
5. Prod	luce 12" hole in center o	of common bu	ikhead. Saw	out and by	reak sharp		
edge	Barrel - Weld repair on	ም5 <i>ው</i> ፓርታገር።	: AR-3 @ 211	lle ánas a	3011:		
	Barrel - "eld lepal" on AB-1 @ 1", 17		10 per		•		
	r-6 @ 2914 7/811 & 2916 5/						
Mate	erial .045 6AL-4V Titaniu	Łm.	`				
	a. Repeat Item 3 Operat	tions a thro	ugh f.				
7. Weld	d of Fwd dome to Fwd tank	<u> </u>		-			
Mat	erial .060 6AL-4V Titaniu	119	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
· · · · · · · · · · · · · · · · · · ·	a. Load in Fixture			·			
	(1) 2615-930009 Fwd	Dome (GFD)			,, -		
	(1) 2615-930004 Par	tial Tank As	sembly				
	b. Route joining surface	ces to match	125 or bett	er.			
	c. Clean weld area per	MPF 55026.					
	d. Install back-up bar	<u> </u>					
<u> </u>	e. Set-up weld torch a	nd trailing	shoe.		,		
	f. Weld sample.			,	<u>~_</u>		
	g. Purge with argon 2	hours min.	olen del la la Maria de la				
, , , , , , , , , , , , , , , , , , ,	in. Automatic weld per	MPP 55026.	,	····			
-	i. Clean weld area.						
	j. I-ray			parameter de la company de			
PRIMARY	MANUFACTURING DATA	WRITER		MAKUP RZD.	<u> </u>		
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DONTROL POINT	REPAIR PROFOSAL CON	JUGATE TANK	PART NO. CUSTOMER	2615-930004
REV.	SHEET NO. 3 OF 3	TOOLS EFFECTIVE SHIP NO	o	
PLAN NO. I	I (continued)			
<u>7•</u>			·	**************************************
,	Weld repair per MRR-PR-	211 as required.		
8. Sk:	irt Rework	·		
a.	Replace all 1/8" HS48 h	i-shear rivets on	fwd and aft skir	ts (1440
	total), with 1/4" HS48	hi-shear rivets.		
b.	Replace 3/16" HS48 hi-s	hear rivets on spli	ice straps (720	places)
	with 1/4" HS48 hi-shear	rivets.		
с,	Replace aft inside row	of attachments (144	4 places) on fwd	skirt
	with NAS1670 1/4" flush	jo-bolt.		· · · · · · · · · · · · · · · · · · ·
9. Af	t Cone Repair			
a.	Repair 2615-930008-5 st	iffener on damaged	aft cone.	· · · · · · · · · · · · · · · · · · ·
10. Sk	irt Installation			
a.	Install fwd skirt using	existing bolts.		
b.	Install aft skirt by bo	nding existing shir	ms with Aerobond	#2.19 and
	(2) flush 5/32" rivets	between each splic	e bolt location.	
С.	Install skirt using exi	sting bolts.		
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	T			
<u>.</u>	<u> </u>			
				-
			·	
			-	
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PRIMAR	Y MANUFACTURING	WRITER	MAKUR 122,	
XARSIN M	DATA ARIETTA CORPORATION	DES. ENGR.	APPROVED	
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DATE TITLE:			PAGE PART NO. CUSTOMER	2615-93000	
REV. B SHEET NO. 1 OF 2	tools effectiv	e ship no.			
PLAN NO. III					
L. Forward Dome - Repair Plug H	loles On F13	Welá @ 10'5'	', 24'4" & 26	'6", F5@ 2",	
F12@ 3'9½", 3'9 7/8", 3'10½"	413611, 41434	it 。			
Material .060 6AL-4V Titaniu	un.				
a. Grind away weld to par	ent_metal.	· · · · · · · · · · · · · · · · · · ·			
b. Clean weld area per MF	R-PR-211.	···			
c. Install back up shield	l on inside o	f dome (spec	ial) with		
vacuum holding fixture	e (existing).				
d. Set-up torch and trail	ling gas shoe	(existing).			
e. Purge with argon for I	L5 minutes.			·	
f. Manual fusion weld rep	oair per MRR-	PR-211.			
g. Grind welds as require	ed - Do not g	rind parent	metal.		
h. X-Ray				···	
2. Aft Cone - Rapair Plug Holes	s on Welds Al	8 @ 15'8", 1	5 <u>'8½", 18'1</u>	1", & 22'4"	
and A15 @ 1'2",					
Material .150 6AL-4V Titaniı	ım.				
a. Repeat Item 1. Operati	ions a thróug	h ha		· · · · · · · · · · · · · · · · · · ·	
3. Aft Barrel - Repair Plug Hol	les on Weld T	6 @ 29.14 7/8	n & 2916 5/	8".	
Material .150 6AL-4V Titaniu	am .		2 h	~,~,	
a. Set up and purge tank	with argon 3	O cu. ft. h	. for 24 ho	urs.	
b. Keeping argon flow th	rough Jaffee	Metal area,	clean weld	area per	
MRR-PR-211.		- 			
c. Manual fusion weld repair per MRR-PR-211.					
d. Grind weld as required I.D. of tank - Do not grind parent metal.					
e. X-Ray					
	· .	. ·	····		
PRIMARY MANUFACTURING	WRITER	,	Manut. Red.		
MARTIN MARIETTA CORPORATION	3		APPROVED		
DENVER DIVISION	Proj. Engr.		RPPROVED		

DATE	TTTLE:			PAGE	
2/07/69			P.	ART NO.	2615-93000
POINT			a	UŞTOMERI	
REV.	SHEET NO. 2 OF 2	TOOLS EFFECT	IVE SHIP NO.		
t. Fwd. Ba	rrel - Repair Plug H	oles on Welds F	B-4 @ 2'7", FB-5	@ 5'3"	and FB-1
@ O",					· · · · · · · · · · · · · · · · · · ·
Materia	1 .045 6AL-4V Titani	um			
a. R	epeat Item 3 Operati	ons a through e	•	***************************************	
5. Fwd Bar	rel Open Crack repai	r (parent metal)		
Materia	l .045 6AL-4V Titani	um	· ·		
a. I	rill 1/8" hole at ea	ch end of crack	-		
b., F	epeat Item 3 Operati	ons a through e	<u>•</u>		
6. Skirt R	ework			`	
a. Rep	lace all 1/8" HS48 h	i-shear rivets	on fwd and aft sk	cirts (1	440 total)
wit	h 1/4" HS48 hi-shear	rivets.		-	-
b. Rep	lace 3/16" HS48 hi-s	hear rivets on	splice straps (72	20 place	s) with
1/4	" HS48 hi-shear rive	ts.		<u></u>	
c. Rep	lace aft inside row	of attachments	(144 places) on f	Ewd skir	t with
NAS	1670 1/4" flush jo-b	olts.	-		
7. Aft Con	e Repair				, ` 0
a. Rep	air 2615-930008-5 st	iffner on damag	ed aft cone.		`
8. Skirt I	nstallation	-			
a. Ins	tall Fwd skirt using	existing bolts	• · · · · · · · · · · · · · · · · · · ·		<u>~~~</u>
b. Ins	tall Aft skirt by bo	nding existing	shims with Aerobo	ond #211	9 and (2)
flu	sh 5/32 rivets betwe	en each splice	olt location.	- -	
c. Ins	tall skirt using exi	sting bolts.			-
		<u>~</u> ×			
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PRIMAR	Y MANUFACTURING DATA	WRITER	MA	มบร์. ค.ฮ.ว.	

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SECTION III

TEST PLAN CHANGES

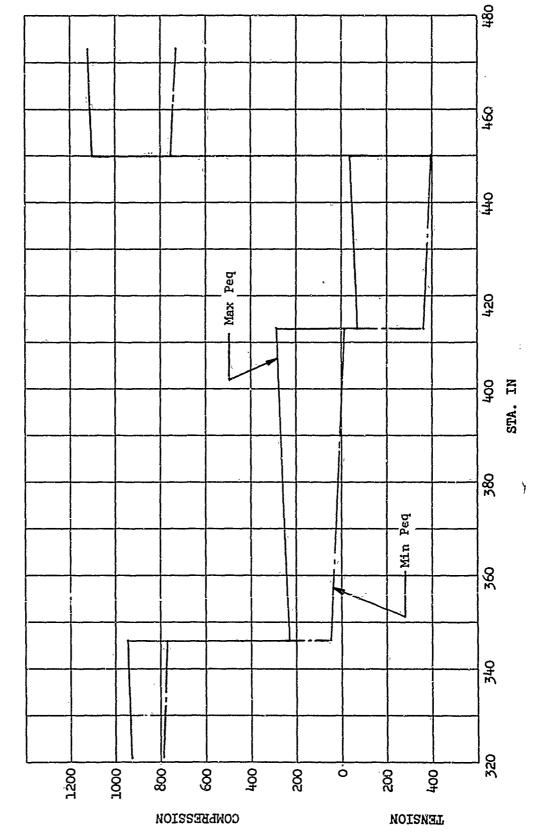
The following five tests will be performed.

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Condition 1 - Tank Barrel Compression Test - This test will subject the tank barrel to the design compression load. The test will provide data on the behavior of the roll diffusion bonded truss core structure of the tank barrel under load. The tank pressure will be 10 psig top dome pressure, which minimizes the possibility of a pressure failure of the pressure vessel. A comparison of the original Peq curves (Fig. 10) with those for this new condition (Fig. 11) shows that the tank barrel will be subjected to the same maximum net compression stress although the location of the maximum load point has shifted from the aft end of the forward tank to the aft end of the aft tank. The selection of 10 psig internal pressure for this condition is intended to provide the minimum acceptable pressure required for barrel stabilization and also will result in a low probability of failure of the forward dome.

Condition 2 - Hydrostatic Test, 65 psig (top dome pressure) - This test will subject the specimen to limit hydrostatic pressure as a single tank structure. The test will be followed by a complete radiographic inspection. The test has been designed to demonstrate the specimen's worthiness as a pressure vessel and to provide data to indicate its ultimate pressure capability.

Condition 3 - Stage O Boost Test - The Stage O boost design condition produces a combination of structural loads that represent the critical design condition for the major part of the tankage structure except the engine thrust cone. With the exception that the specimen will be acting as a single tank structure, this test will be the same as the Test Condition III of the originally contracted Test Pian.



D. C. W. Marior

Figure 10 Load Condition 3 (Original Contract) Conjugate Structure

Equivalent axial load, is \times 10-3

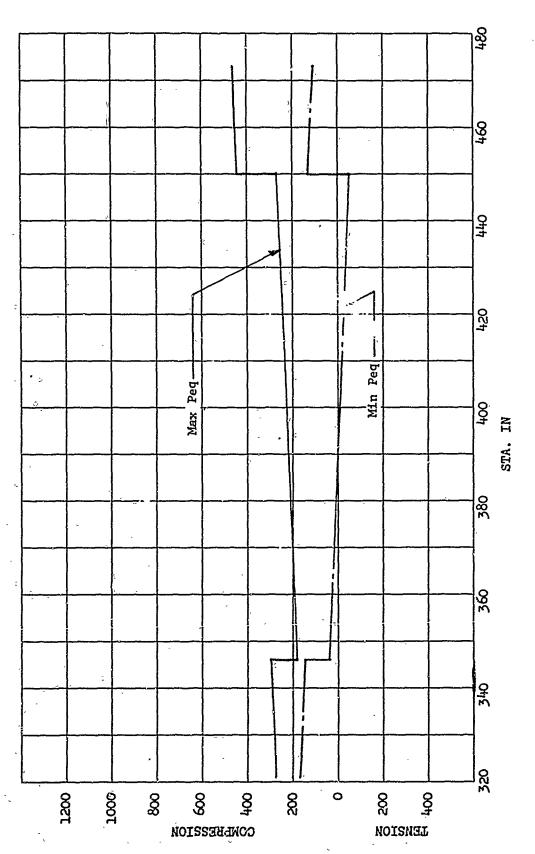


Figure 11 Load Condition 3 Conjugate Structure

Condition 4 - Stage III Boost Test - During the Stage II boost test, engine thrust loads will be introduced through the thrust cone. A fitting will be fabricated to mate with the aft manhole cover and the loads simulating gimbaled engine loads will be applied. The specimen will be filled with treated water (as a single tank structure) and pressurized to limit pressure specified for the forward tank. Load reaction shall be accomplished at the aft skirt.

The second secon

Condition 5 - Hydrostatic Test of Two Tank Configuration - After the completion of the previous four test conditions, the holes in the common dome (plugs taken for examination) will be closed. The specimen will then be subjected to limit hydrostatic pressures in both tanks as specified in the original contract.

SECTION IV

RESULTS OF FLUSHING OF FORWARD FUEL TANK BARREL

During the receiving inspection, water was found in the fuel tank. The water had bled through a crack in the inside skin of the truss core tank barrel. The water was removed from the truss core barrel wall by flushing with acetone. Appendix II is a report of the flushing procedure.

SECTION V

REVISED TEST

1. YEST DESCRIPTION AND LOADS

Five tests will be performed to adequately test the structure. The first two tests have been added and are intended to provide test data on the behavior of the roll diffusion bonded truss core structure with minimum risk. The last three tests are essentially those of the original contract but in a revised order. The following is a brief description of the tests. All test loads are shown on Fig. 12.

a. Condition 1 - Tank Barrel Compression Test

This test will subject the tank barrel to the design compression load. The test will provide data on the behavior of the roll diffusion bonded truss core structure of the tank barrel under load. The tank pressure will be 10 psig top dome pressure, which minimizes the possibility of a pressure failure of the pressure vessel. A comparison of the original P curves (Fig. 10) with those for this new condition (Fig. 11) shows that the tank barrel will be subjected to the same maximum net compression stress although the location of the maximum load point has shifted from the aft end of the forward tank to the aft end of the aft tank. The selection of 10 psig internal pressure for this condition is intended to provide the minimum acceptable pressure required for barrel stabilization and also will result in a low probability of failure of the forward dome.

b. Condition 2 - Hydrostatic Test, 65 psig (top dome pressure)

This test will subject the specimen to limit hydrostatic pressure as a single tank structure. The test will be followed by a complete radiographic inspection. The test has been designed to demonstrate the specimen's worthiness as a pressure vessel and to provide data to indicate its ultimate pressure capability.

c. Condition 3 - Stage O Boost Test

The Stage O boost design condition produces a combination of structural loads that represent the critical design condition for the major part of the tankage structure except the Ligine thrust cone portion. The specimen shall be functioning as a single tank structure and, with that exception, the structure test will be the same as the Test Condition III of the originally contracted Test Plan.

	2	Conditions				
ے دا	Loads	1	2	3	4	5
F	(kip)	222.7	0	861	0	0
G	(kip)	24.45	0	24.45	0	0
Н	(kip reaction)	284.7	0	923	-54	0
J	(kip reaction)	24.45	0 1	24.45	5.48	0
K	(kip)	0 ,	0	0	116	0
L	(kip)	0	0	0	5.48	G
М	(inkip)	1589	0 '	2138	0	0
N	(inkip reaction)	5305	0.	5960	116	0
P	(psi)	10	65	65	50	Q Ì
P P _f	(psi)	0	0	0	0	65
Pox	(psi)	0	Ō,	0	. 0	99.7

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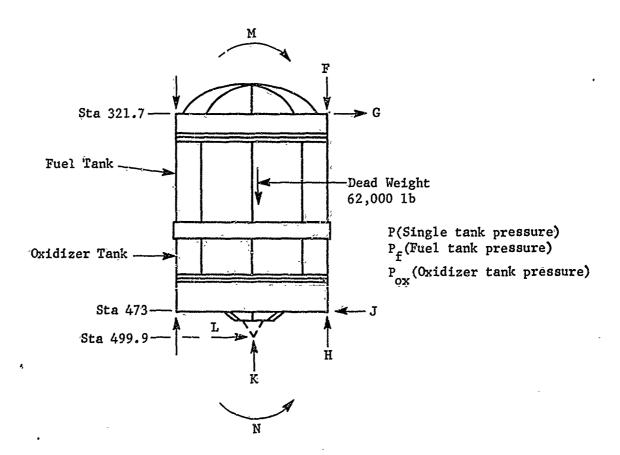


Figure 12 Test Load Summary

d. Condition 4 - Stage II Boost Test

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During the Stage II boost test, engine thrust loads will be introduced through the thrust cone. A fitting will be fabricated to mate with the aft manhole cover and the loads simulating gimbaled engine loads will be applied. The specimen will be filled with treated water (as a single tank structure) and pressurized to limit pressure specified for the forward tank. Load reaction shall be accomplished at the aft skirt.

e. Condition 5 - Hydrostatic Test of Two Tank Configuration

After the completion of the previous four test conditions, the holes in the common dome (plu;s taken for examination) will be closed. The specimen will then be subjected to limit hydrostatic pressures in both tanks as specified in the original contract.

The plan requires static testing at room temperature, which necessitates an adjustment of the static loadings to compensate for the decrease in material properties at elevated temperatures. Material properties at 270°F were used for the design and analysis of the tankage structure. The ambient-temperature test loads must, therefore, be increased by the ratio of test temperature to design temperature material allowables. This relationship may be expressed as

$$\frac{\text{Load}_{\text{test}}}{\text{Load}_{\text{design}}} = \frac{F_{\text{tu}}}{F_{\text{tu}}} \frac{\text{RT}}{270 \, \text{°F}} = \frac{111,000}{96,000} = 1.16$$

The equation has also been used to determine the ultimate test loads of Table III for the two critical, complete tankage assembly test conditions.

After each test is completed, test data (strain gage and deflection) will be evaluated to determine if any yielding has occurred. The test specimens will also be visually inspected for evidence of buckling and the domes and cone will be visually inspected for any irregularities not existing before the test.

The manhole covers will be removed and the fuel tank ring frame and the manifold ring structure will be inspected for indications of instability. The results of the data evaluation and inspection, in conjunction with the fact that the specimen successfully sustained the test loads, will provide a basis for determining the success of the test. A basic success criterion is that the specisustain ultimate load without failure. The strain gage data shall be extrapolated to an ultimate value to evaluate success.

2. TEST SETUP, HYDROSTATIC TEST CONDITIONS 2 AND 5

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The test specimen will have the specified strain gages in-The specimen will then be attached to a base fixture (see Fig. 13). The joint will be made at the aft skirt frame by using NAS1004 bolts through the frame and base fixture. The test plumbing system will be installed to fill and drain the test specimen with treated water (it is planned that all risks concerning stress corrosion of the titanium tanks be avoided) and to pressurize the tanks. The reagent water is prepared according to government specification STM Y802, which assures no chlorine content. Intergranular corrosion is thereby avoided. Electrical transducers will be used for pressure readouts. A Bourdon gage will be used as a backup pressure readout device. Pressure will be increased in the tankage by regulating a compressed air supply to the desired levels. The tank will be filled to a level that will leave some air remaining in the tank. A sketch of the plumbing system is shown in Fig. 14.

After the Hydrostatic Test Condition 2 is completed, the specimen will be removed from the fixture, taken to the radiographic inspection building, and completely inspected.

Deflection instrumentation will be installed to determine the behavior of the specimen during pressurization. Electrical transducers will be affixed to a rigid frame adjacent to the specimen and their probes will follow and indicate the specimen's movement.

3. TEST SETUP, TEST CONDITIONS 1, 3 AND 4

The test setup for each test is essentially the same as descirbed for test Conditions 2 and 5. All deviations will be noted. All strain gage and deflection instrumentation will be monitored for each test condition. All test loads will be applied with hydraulic jacks and measured with electrical load cells. The pressure in the jacks will be monitored to provide backup load data. The dead weight of water in the tank will be considered as a portion of the test load. The water level in the tank will be measured with a manometer. The pressurization system and the water fill and drain system will be the same as that used for the hydrostatic test.

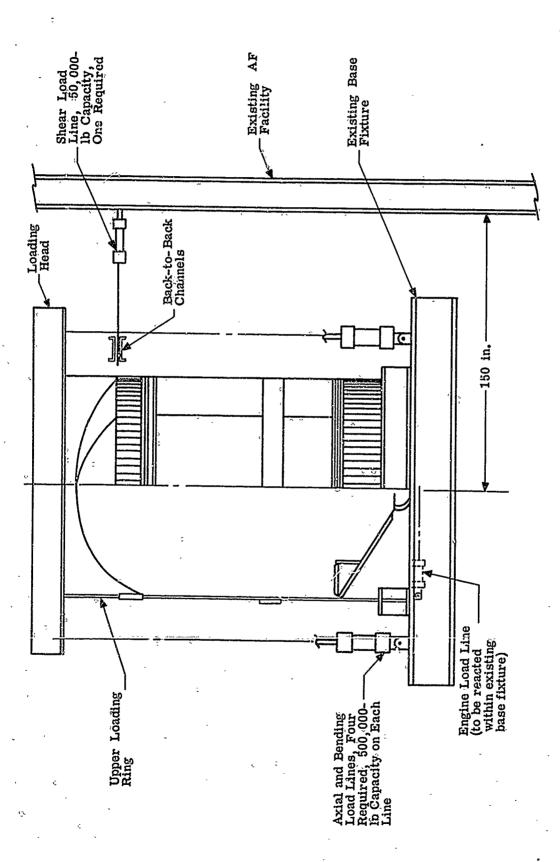
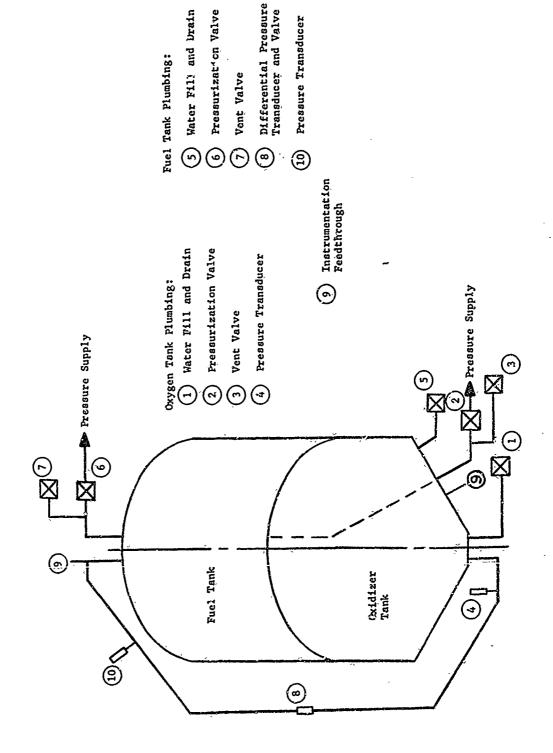
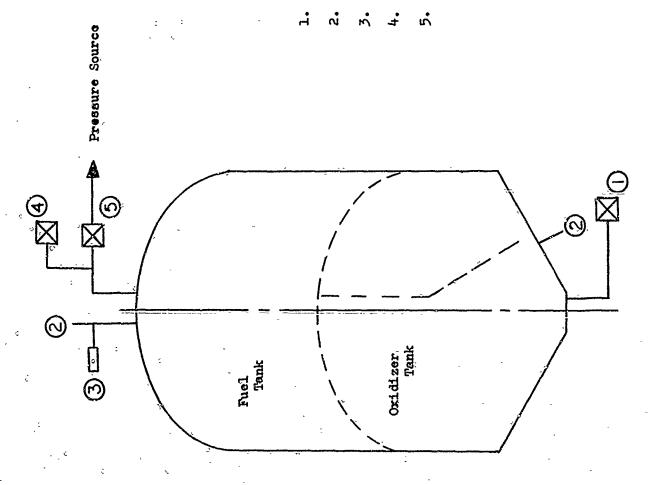


Figure 13 Test Setup Schemitic



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Instrumentation Feedthru

Pressure Transducer

Vent Valve

Pressurization Valve

Water Fill and Drain

Figure 14 Plumbing Schematic (b) Conditions 1 thru 4

The test specimen will be attached to the base fixture as previously discussed for the hydrostatic test. A loading head (a structural steel fixture providing a means of introducing load to the forward skirt of the specimen) will be attached to the forward skirt in the same manner as the joint at the base fixture. The loading head is a structural steel welded assembly. It is an octogonal wheel in planform. A leveling ring of 10-ft nominal diameter is affixed to the bottom side of the structure. It is locally stiffened to ensure proper load distribution. The corners of the octogonal structure have universal assemblies attached to accept the hydraulic jack and load cell assemblies.

During the Condition 1 and 3 tests, axial load and moment will be applied to the loading head by four axial load lines (arrangement of hydraulic jack, load cell, and suitable steel linkage), deriving moment by differential axial loads. The required shear load will also be applied to the loading head.

The loading head will be weighed so its dead weight can be counterbalanced during instrumentation zero and test loading. The counterbalancing will be accomplished by attaching a hydraulic jack, load cell, and structural steel straps to the loading head and a fixed overhead beam arrangement. The load in the hydraulic jack will be maintained at the prescribed constant load during the specified times. The loading head will be counterbalanced during instrumentation zero and test load by load lines attached to an overhead beam structure. The overhead beams and counterbalance load lines also serve as a catch structure to prevent the loading head from falling if a failure occurs.

A fixture that will attach to the manhole cover of the tank thrust cone will be fabricated to provide a way to apply the loads for the appropriate test condition.

The test specimen will be watched from the control room and on closed-circuit television (four channels available). The closed-circuit television is of particular advantage during the Condition C test in which the critical structure will be obscured from direct view of observers.

4. INSTRUMENTATION

a. Strain Gages

Approximately 120 resistance strain gages will be used for monitoring tankage specimen testing. The gages will be located as specified in the currently contracted test plan to monitor areas of known or anticipated maximum stresses, as well as areas of uniform average stresses for comparison, including:

- 1) Circumferential welds;
- 2) Y-rings;
- 3) Forward dome skin (outside):
- 4) Common bulkhead (oxidizer side);
- 5) Thrust cone accumulator frame:
- 6) Thrust cone skin;
- 7) Thrust cone engine mount:

Preplots of anticipated stresses shall be prepared by the contractor to expedite the testing operations.

b. Deflection Transducers

Structural deflections of the tankage specimen will be monitored during each test condition by electrical deflection transducers. The following locations have been selected to register deflections in the directions noted:

- 1) Forward Y-ring, approximately Station 345, four points approximately 90-deg apart around tank circumference, reading radially outward;
- Intermediate Y-ring, approximately Station 416, four points approximately 90-deg apart around tank circumference, reading radially outward;
- 3) Aft Y-ring, approximately Station 454, four points approximately 90-deg apart around tank circumference, reading radially outward;

- 4) Forward Y-ring, approximately Station 345, four points approximately 90-deg apart around tank circumference, reading axially relative to the aft Y-ring;
- 5) Engine mounting ring, approximately Station 485, two points approximately in plane with engine side load components, reading axially;
- 6) Engine load fixture at gimbal centerline, approximately Station 499, three deflections, one in each coordinate direction.

c. Pressure Transducers

Pressure gages and transducers are required to monitor and display internal tank pressurization. Calibrated pressure switches will be used to activate relief valves for a pressure condition potentially incompatible with safety.

d. Photostress

Transparent, birefringent elastic coatings will be bonded to the external surface only of the tankage specimen for more detailed evaluation of the stress and strain distribution in the following five areas:

- 1) Unpressurized passage tank walls;
- Pressurized passage tank walls;
- 3) Longitudinal weld;
- 4) Circumferential weld;
- 5) Weld intersection.

The photostress sheets should be photographed in color to illustrate stress distributions and magnitudes in the following order in the Condition E test:

- 1) Tank empty, no pressure, no load;
- 2) Tank full, no pressure, no load;
- 3) Tank full, 25% limit pressure, no load;
- 4) Tank full, 50% limit pressure, no load;
- 5) Tank full, 75% limit pressure, no load;
- 6) Tank full, 100% limit pressure, no load;

- 7) Tank full, 100% limit pressure, 60% limit Condition 3 load;
- 8) Tank full, 100% limit pressure, 80% limit Condition 3 load;
- 9) Tank full, 100% limit pressure, 100% limit Condition 3 load;
- 10) Tank empty, no load, no pressure;
- 11) A list of the photostress tasks follows -
 - a) Install five photoelastic panels. The panel sizes and locations are 12x12-in. panel on unpressurized tank wall,
 12x12-in. panel on pressurized tank wall,
 12x12-in. panel slit over longitudinal weld,
 - 12x12-in. panel split over circumferential weld, 12x12-in. panel over intersection of longitudinal and circumferential weld;
 - b) Install all specimens on the same tankage assembly;
 - c) Gather stress distribution and magnitude data;
 - Read data on nine different occasions, four of which will have four increments of load;
 - e) Produce color photographs and reduced data;
 - f) Publish a minimum of five reports.

e. Data Acquisition

The individual strain gage outputs will be recorded on tape by a low-level analog-to-digital data logging device. The tape will then be used with an IBM 360/30 computer to provide a stress tabulation. During the test, the data from each strain gage (a single electrical channel) will be calculated independent of other gages. After the test is complete, the rosette and shear gage data will be reduced to usable data. It is anticipated that tabulations of stress data will be available approximately 15 minutes after data recording during a test operation.

Data recording will include:

- 1) Laboratory log books to record deflections, temperatures, and other pertinent test information;
- Color still photographs of the photostress patterns, identified to correlate with associated test loadings;
- 3) Black and white still photographs of the overall test setup, test facility details, and special test equipment.

f. Data Reduction

Data reduction will include:

- All strain gage data recorded on magnetic tape, processed by a digital computer, to convert indicated strain values to corresponding stress values;
- 2) Strain gage rosette data, reduced by the computer to present values of maximum and minimum principal stresses and their directions for each data point;
- Pressure transducer data recorded on magnetic tape, processed by a digital computer, to convert indicated values to corresponding true pressure values;
- 4) Deflection data, hand-tabulated from the log books.

5. TEST PROCEDURE

The process for conducting the test has been structured to provide a method of collecting meaningful data and a means of monitoring the behavior of the test specimen. The contractor will attempt to avert test specimen failures by reviewing strain gage and deflection data as the test progresses. The contractor shall coordinate the test data (strain and deflection) with the Air Force representative as the test progresses to determine that the specimen's behavior is satisfactory. The goal is to eliminate the possibility of a failure. Coordination with the Air Force representative will be necessary before each test load is increased. The time required to review the test data should not exceed 1/2 hr. The times at which the data are to be reviewed will be established by the test conductor and the Air Force representative. A hold time in excess of 2 hr caused by the Air Force representative during data review shall be cause for test shutdown and termination of testing.

Tables III thru VII show the steps of each test operation. Before following the steps listed in the tables, the test area will be secured to prevent unauthorized personnel from entering the area. All test instrumentation, load cells, strain gages, and deflection probes will be zeroed and recorded.

6. HAZARDS AND EMERGENCY SHUTDOWN PROCEDURES

a. Tank Failure

Structural failure within the primary tankage structure would almost certainly result in catastrophic failure of the specimen and a sudden release of 62,000 lb of water. In case of catastrophic failure, shutdown will be automatic. For noncatastrophic tank failure, the following procedure will be followed:

- All flight loads, if any, will be reduced to zero as quickly as possible, using the "dump" function of the hydraulic system;
- 2) Specimen pressure will not be dumped, but reduced rapidly until 5 psi is reached with the tankage. After verifying that flight loads have been reduced to zero, the tank pressure will be reduced to zero;
- 3) The tank will then be drained per Tank Drain Procedure.

b. Fill Procédure

The fill procedure is as follows:

- 1) With manual and remote controlled vent valves open, open water fill valve, filling tank to desired level;
- 2) Close water fill valve;
- Close manometer and vent valves;
- 4) Pressurize tank to desired pressure.

Table II	I Test-	Procedure	Tteps,	Condition	1

		استعلام مستعلمات			
Step	Applied Load (%)	Tank Pres- sure (psi)	Stablize Load	Record Data	Remarks
1	0	0		х	Tank empty, unpressurized
2	0	0	<i>(</i>	X	Tank loaded with water, unpressurized, Akef Tank Fill Procedure)
. 3	. 0	5	X	, X	
4.	0	10	x	х	
5	20	10	х	x	
6	40	10.	X ,	X	
. 7	60	10	х	x	
8	80	10	х	х	-
9 ,	90	. 10	х	x	
10	95.	10	X	x	
11	100	10	X.	X	
12	20	10	х	х	Set data recording
13	Ó	10		1	
14	0	0			

Table IV Tes(Procedure Steps, Condition 2 (65 psi Hydro)

Step	Applied Load (%)	Tank Pres- sure (psi)	Stablize Load	Record Data	Remarks
1	0 ,	0		х	Tank empty, unpressurized
2	0	0		х	Tank loaded with water, unpressurized, (Ref Tank Fill Procedure)
3	0 -	Í0	х	х	,
4	0	20 ,	x	х	
5	0	30	х	х	
6	0	40	х ·	, x	
7	0	50	х	х	
8	0	55	х	х	
Ą	o	60	x	Х	,
10	0	65	х	x	
11	0	16	x	х	Set data recording
12	0	0			Ref Tank Drain Procedure

Tablé V Test Procedure Steps; Condition 3 (Step-0 Burnout)

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Stáp	Applied 7.oad (%)	Tank Pres- sure (psi)	Stablize Load	Kecord Data	Remarks	
ī.	0	0) 	х	Tank empty, unpressurized	
, 2	0	0 ;		х	Tank loaded with water, unpressurized, (Ref Tank Fill Procedure)	
3	0	16.25	х	х	Photograph photostress	
4	0	32.5	х	х	panels	
5 ;	0 -	48.75	х -	·x		
6	0	65	х -	х		
Ì	25	65	x	х	-	
8	50 -	65	х	х	:	
. 9	75 ·	65	х	X	,	
10	100	65	х	х	Photograph photostress	
11	25	65	х	х	Set data recording	
12	0	65]		,		
13	0	0			Ref Tank Drain Procedure	

Table VI Test Procedure Steps, Condition 4 (Stage II Boost)

				<u> </u>	
Step	Applied Load (%)	Tank Pres- sure (psi)	Stablize Load	Record Data	Remarks
1	0	0		х	Tank empty, unpressurized
2	0	0		X	Tank loaded with water, unpressurized (Ref Tank Fill Procedure)
3	0	20	х	х	,
4	-0	45	х	х	-
5	0	65	х	х	
6	° 20	65	х	х	
7.	40	65	Х	. х	
8	60	65	х	х	
9	80	65	х	x	
10	90	65	х	х	
11	95	65	х	х	•
12	100	65	х	х	
13	20	65	х	X	Set data recording
14	0	65			
15	0	0			(Ref. Tank Drain Procedure)

Table VII Test Procedure Steps, Condition 5 Hydrostatic Test

Ì	Load Steps*				•	
	Í	Tank Pressuret				,
Stęp	Applied Load‡	Fuel	Oxidizer	Stabilize Load	Record Strains	Remarks
1	0.0	0	Ò	Ţ	Х	Tanks empty
2		10	20	х		Ref tank filling procedure
° 3		20	20	Х	X .	,
4		20	40	X ·		
5		40	40	х	х	
6		40	60	, X		
7		. 60	60	X	х	
8		60	80	х	/	,
9	ç	80	80	x	х	
10		80	90	x		
11	ĺ	90	90	х	×	
12		: 90	100	×	. -	
13	-	100	100	x	X	Limit pressure has been demon- strated
14		80	100	- -		,
15		80	80		-=	
16	-	60	80			
17		60	60	X	<u>x</u> -	
18		40	60	~-		
19		40	40		/; - -	
20		20	40			
21		20	20			
- 22		0	20		>	
23	0.0	0	0	Х	Х	-

^{*}Indicated loads are in % of limit loads.

[†]Pressure safety factor = 1.25. ‡Applied load safety factor = 1.40.

c. Drain Procedure

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Di C

For a single tank configuration the drain procedure is as follows:

- 1) Pressurize tank to 15 psi (except for Condition 1 when 8 to 10 psi shall be used);
- 2) Open water drain valve; maintaining tank pressure at 8 to 10 psi minimum. If this pressure cannot be maintained, close drain valve and increase tank pressure to 15 psi (8 to 10 psi for Condition 1 only);
- 3) Continue water drain until pressurized air from the tank blows through the drain line, thus assuring that the tank is empty;
- 4) Reduce tank pressure supply to zero, open manual and remote controlled vents, permitting pressure to decay to zero. Close water drain valve.

For a two-tank configuration - (same as originally contracted).

d. Test Procedures

The detailed test procedures for the tankage assembly are presented in Tables III thru VII.

SECTION VI

CONJUGATE STRUCTURE

FUEL TANK WALL

FLUSH TEST REPORT

Test Conductor: P. L. Hanson

February 1969

Approved:

R. L. Lyon Unit Head

Structures Laboratory

R. A. Brown

Structures Laboratory

Purpose

This test resulted from an observation of water leaking from a crack in the parent metal of the fuel tank interior. The purpose of the test was to remove any water and/or foreign particles lodged in the conjugate structure fuel tank wall.

Test Setup

The conjugate structure was mounted horizontally on transportation dollies with the oxidizer tank elevated five inches above the fuel tank. The fill and drain outlet was placed down and the vent was at the top. The acetone barrel was elevated above the conjugate structure tank and poly-flo tubing was used as plumbing between the two. Hand valves were used to regulate the flow. After the fill and drain procedure was completed, the tank fill outlet was plumbed to the factory nitrogen gas system. A pressure gage was used to monitor nitrogen pressure (i.e., less than 8 psig) in the purge line. The fumes were piped outdoors from the vent outlet. No other instrumentation was used.

Safety Procedure

The tank was flushed outdoors to reduce the chance of explosion. The test area was roped off and no smoking-danger signs were displayed. The fill and drain was accomplished by gravity flow. The tank outlets were closed off each time it was stored in a building, while fumes were present.

Test Procedure

- 1. Filled fuel tank wall as shown in Figure 15 from elevated acetone barrel until acetone overflowed from vent outlet.
- 2. Drained tank from fill outlet.
- 3. Repeated Steps 1 and 2 two additional times with clean acetone.
- 4. Purged tank wall structure with gaseous nitrogen until no acetone odor was detectable.

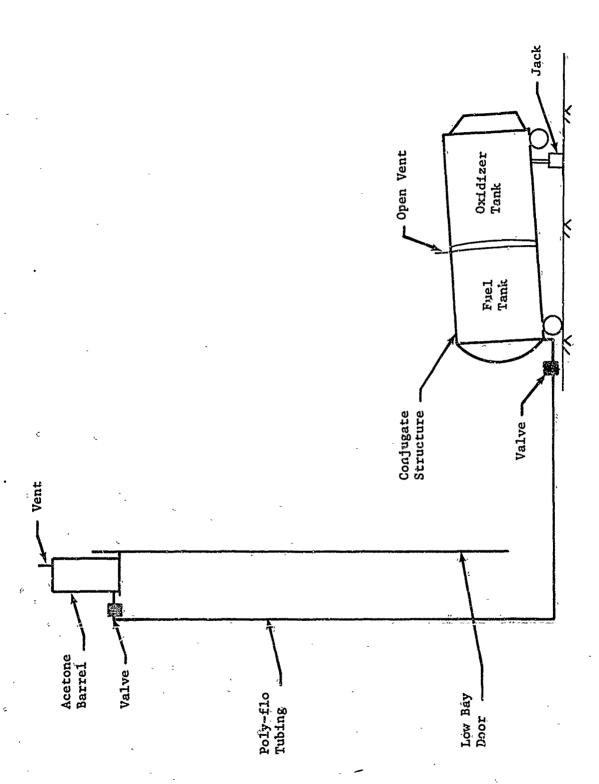


Figure 15 Figh Test Setup Schematic

Results

The acetone drained from the conjugate structure tank wall was very clean, no foreign particles were observed in the outflow. It was impossible to determine the amount of water in the acetone as they are both colorless and soluble in one another. The tank was purged with gaseous nitrogen for ten (10) hours and no acetone odor was discernable.

APPENDIX II

Conjugate Structure Test
Condition 1

10 1029	REC PT 400	RATE 01	-10/29/69 CONJUGATO	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	. N/A	L001A	L001B	P0021A	· P0022A	GP
0000	0000 08	47 18-26	0000000.00	0000348.80-	0000024-05-	0000006.01	0000090.20-	01
1000	0000 12	58 53.77	0000000.00	0000493-15	0000120.28	00G0006.01	0000294.69	01
1000	0000 12	58 54.77	0000000.00	0000541.26	0000096+22	0000102-24	0000246.57	01
1000	0000 12	58 55.77	0000600.00	0000324.76	0000144.34	0000090.20-	0000246.57	01
1000	0000 12	58 56.77	0000000.00	0000348.81	0000120.28	0000066.14-	0000222.52	01
1000	0000 12	58 57-77	0000000.00	0000324.76	0000096.22	0000042-09-	0000246.57	01
1005	0000 13	06 59.24	0000000.00	0005400.57	0003608.40	0000186.42-	0000030.07	01
1005	0000 13	07 00.24	0000000.00	0005737.36	0003656.51	0000162.37-	0000126.29	01
1005	0000 13	07 01.24	00.00000	0005689.24	0003608.40	0000258.59-	0000150.35	01
1005	61 0000	07 02.24	0000000.00	0005641.13	0003560.29	0000234.54-	0000150.35	01
1005	0000 13	07 03.24	0000000.00	0005833.58	0003584.34	-0000306.70-	0000102.24	01
1010	0000 13	08 54.04	0000000.00	0009417.92	0006038.06	0000475-10-	0000006.01	01
1010	0000 13	08 55.04	000,000.00	0009682.54	0006062.14	0000643.49-	0000078.18	01
1310	0000 13	08 56.04	0000000.00	0009634.43	0006062,11	0000643.49-	0000054.13	01
1010	0000 13	08 57.04	0000000-00	0009730.65	0006038.06	0000595.38-	0000030.07	·01
1010	0000 13	08 58.04	40000000.00	0009730.65	0006062.11	0000715.66-	0000054.13	01
1010	J020 13	19 52.40	0000000.00	0008311.35	0005893.72	0000908-10-	0000006.01	01
		19 53.40	00.0000.00	0008984.92	0005893.72	0000932.16-	0000150.35	01
1010	0020 13	19 54.40	0000000.00	0008864.64	0005917.78	0000980-27-	0000126.29	01
		19 55.40		0008816.52	0005917.78	0001004.33-	0000126.29	01
1010	0020 13	19 56.40	0000000-00	0008888.69	0005893.72	0001052.44-	2000126.29	01
1010	0040 13	24 23.72	0000000.00	0009153.31	0006134.28	0001413.28-	0000102.24	01
1010	0040 13	24 24.72	0000000.00	0009321.70	0006134.28	0001389.22-	0000198.46	01
1010	0040 13	24 25.72	0000000.00	0009393.87	0006014.00	0001509.50~	0000198.46	01
1010	0040 13	24 26.72	0000000.00	0009345.76	0006038.06	0001533.56~		01
1010	-0040 13	24 27.72	0000000-00	0009393.87	0005989.94	0001509.50~	0000174.41	91
1010	0060 15	08 30.65	0000000.00	0008744.36	0005965.89	0001894-40-	0000178-46	01
1010	0060 15	08 31.65	0000000.00	0008960.86	0005965.89	0001870.34-	0000246.57	01
1010	0060 15	08 32.65	0000000.00	0008816.52	0005989.94	0001870.34-	0000246.57	01
		08 33.65		0008792.47	0005941.83	0001918.46-	0000198.46	.01
1010	0060 15	08 34-65	0000000-00	0008768.41	0005989.94	0001870-34-	0000174.41	01
		16 27.09		0008864-64	0006014.00	0002327.41-		01
1010	0080 15	16 28-09	0000000.00	0009345.76	0006038.06	0002327.41-		01
1010	0080 15	16 29.09	00000000	0009297-64	0006086.17	0002327.41-		01
1010	0080 15	16 30.09	0000000.00	0009297.64	0006086-17	0002351.46-		01
1010	0080 15	16 31.09		0009321.70	0006062.11	0002351.46-		01
1010	0090 16	37 17.85		0007709.95	0005797.50	0002519.86-		01
1610	0090 16	37 18.85		0007709.95	0005821.55	C	0000174-41	01
		37 19.85		0007517.50	0005845.61		0000222.52	01
1010	0090 16	37 20.85		0007541.56	0005845.61	0002519.86-		01
		37 21.85		0007565.61	0005773-44		0000150.35	01
		40 49.63		0008720.30	0006158-34		0000102.24	01
		40 50.63		0009081.14	0006134-28		0000222.52	01
		40 51.63		0009008-97	0006170.22		0000126.29	01
		40 52.63		0008960.86	0006086.17		0000126.29	01
		40 53.63		0009057.08	0006062-11		0000150.35	01
1010	0100 16	44 33.87	00000000	0008118.90	0005965.89	UUU2808.53-	0000150.33	01

REC PT 400	RATE 01	10/29/69 CONJUGAT	E STRUCTURE	TEST COND 1			
COND HR.	/HN/SEC	AVA	L001A	F0018	P0021A	P0022A	GP
0100 16	44 34-87	0000000.00	0008503.80	0006014.00	0002784.47~	0000198-46	01
		0000000-00	0008503.80	0006062-11	0002736.36-	0000198,46	01
		0000000-00	0008455.68	0006014.00	0002784.47-	0000150.35	01
		000000-00	0008527.85	0005989.94	0002760.42-	0000198.46	01
			0008263-24	0005797-50	0001124-61-	0000114.26-	01
		0000000.00	0008311.35	0005845-61	0001124.61-	0000030.07	01
		000000.00	0008239.18	0005821-55	0001143.66-	0000018.03-	01
		2000000-00	0008167.01	0005845.61	0001172.72-	0000018.03-	01
		0000000.00	0008191.07	0005821.55	0001148.66-	0000018.03-	01
	400 COND HR 0100 16 0100 16 0100 16 0021 16 0021 16 0021 16	400 01 COND HR/MN/SEC 0100 16 44 34.87 0100 16 44 35.87 0100 16 44 36.87 0100 16 44 37.87 0021 16 52 40.66 0021 16 52 41.66	400 01 COND HR/MM/SEC N/A 0100 16 44 34.87 0000000.00 0100 16 44 35.87 0000000.00 0100 16 44 37.87 0000000.00 0100 16 44 37.87 0000000.00 0021 16 52 40.66 0000000.00 0021 16 52 41.66 0000000.00 0021 16 52 42.66 0000000.00 0021 16 52 43.66 0000000.00	400 01 COND HR/MM/SEC N/A L001A 0100 16 44 34.87 0000000.00 0008503.80 0100 16 44 35.87 0000000.00 0008503.80 0100 16 44 37.87 0000000.00 0008555.68 0100 16 44 37.87 0000000.00 0008527.85 0021 16 52 40.66 0000000.00 0008263.24 0021 16 52 41.66 0000000.00 0008311.35 0021 16 52 43.66 0000000.00 000839.18 0021 16 52 43.66 0000000.00 000839.18	400 01 COND HR/MM/SEC N/A L001A L001B 0100 16 44 34.87 0000000.00 0008503.80 0006014.00 0100 16 44 35.87 0000000.00 0008503.80 0006062.11 0100 16 44 37.87 0000000.00 0008555.68 0006014.00 0100 16 44 37.87 0000000.00 0008527.85 0005014.00 021 16 52 40.66 0000000.00 000827.85 0005989.94 0021 16 52 41.66 0000000.00 0008311.35 0005855.61 0021 16 52 42.66 0000000.00 000839.18 000585.61 0021 16 52 43.66 0000000.00 000827.01 0005855.61 0005855.61	400 01 COND HR/MN/SEC N/A L001A L001B P0021A 0100 16 44 34.87 0000000.00 0008503.80 0006014.00 0002784.47-0100 16 44 35.87 0100 16 44 36.87 0000000.00 0008503.80 000602.11 0002784.47-0100 16 44 37.87 0100 16 44 37.87 0000000.00 0008527.85 0050989.94 0002784.47-0100 16 52 40.66 0021 16 52 40.66 0000000.00 0008263.24 0005797.50 0001124.61-0021 16 52 41.66 0021 16 52 42.66 0000000.00 0008311.35 0005821.55 0001124.61-00124.61-00124.61-00124.61-00124.61-00124.61-	400 01 COND HR/MN/SEC N/A L001A L001B P0021A P0022A 0100 16 44 34.87 0000000.00 0008503.80 0006014.00 0002764.47- 0000198.46 0100 16 44 35.87 0000000.00 0008503.80 0006062.11 0002736.36- 0000198.46 0100 16 44 37.87 0000000.00 0008527.85 0006014.00 0002784.47- 0000150.25 0100 16 44 37.87 0000000.00 0008527.85 0005989.94 0002760.42- 0000198.46 0021 16 52 40.66 0000000.00 00088263.24 0005797.50 0001124.61- 0000114.26- 0021 16 52 41.66 0000000.00 0008311.35 0005845.61 0001124.61- 0000030.07 0021 16 52 42.66 0000000.00 0008399.18 0005821.55 0001143.66- 000018.03- 0021 16 52 43.66 0000000.00 0008167.01 9005845.61 00011272.72- 0000018.03-

1053 10	REC PT RAT		29/69	CONJUGATE	STRUCTURE	TEST COND 1			
test	COND HR/MN/	SEC		P90022A	F90021A	P180021	A P160022A	P0031B	G₽.
	0000 68 47		80	00024.06	0000048.11	0000024.05	- 0000054-12-	0000060.13-	02
1000	0000 15 58	53,77	00	00168.39	0000120.28	0000120.27	~ 0000306.71	0001407.28	07
1000	0000 12 56	54.77	00	00144.34	0000096*22	0000096-21	- 0000282.66	3031527.56	0.5
	0000 12:58				0000120.28		- 0000282.66	0001527.56	02
	0000 12 58				0000120.28		- 0000330-77	0001503.50	92
	0000 12 58				98.08,000		- 0000330.77	3001527,56	02
	0000 13 06						- 0000667.55	6013194,72	65
	0000 13 07						- 0000643,50	0013146.60	02
	0000 13 07						- 0000667.55	0013170.66	ŐS.
	0000 13:07			00120-28			- 0000739.72	0013266.88	ĞZ
	0000 13 07						- 0000667,55	0013194.72	50
	0000 13 08			00048-11			- 0000811.89	0024549.15	02
	0000 13 08						- 0000860.00	0024573.20	02
	0000 13 08			00248.11			- 0000835.95	0024549.15	02
	0000 13 08						- 0000884.08	0024501.04	05
	0000 15 08			00024-06			- 0000835.95	0024525.09	62
	0020 13 19			00000-00			- 0000956.23	0023971.80	02
	0020 13 19			00144.34			0000908.11	0023971.80	02
	0020 13 19			00096+22 00024 - 06			- 0000908.11 - 0000933.17	0023971.80 0023971.80	02 02
	0020 13 19			00024.00			0000932.17 0000908.11	2023947.75	02
	0040 13 24						- 0000956.23	0024597-26	02
	0040 13 24		- /	00024.05- 00144.34			- 0000980-28	0024645.37	02
	0040 13 24			00048.11			- 0000980-28	0024645.37	02
	0040 13 24			00120.28			- 0001004.34	0024621.32	οż
	0040 13 24			00096.22			- 0000980-28	0024573.20	02
	0060 15 08			00144.34			- 0000735.72	0023538.80	02
		31.65		00096.22			- 0001052.45	0023538.80	ÓŽ
	0060 15 08			00096.23			- 0000956-23	0023514.74	02
	0060 15 08			00072-17			- 0000884.06	0023514.74	02
	0060 15 08			00048-11			- 0000932-17	0023466-63	02
	0080 15 16		00	00000-00	0001443.35-	0001611.74	- 0001124.62	0024164.25	02
1010	0080 15 16	28-09	00	00096-22	0001443.35-	0001587.6	- 0001076.51	0024116.14	95
1010	0080 15 16	29.09	00	00000-00	0001323.07-	0001587.69	- 0001004.34	0024188.31	05
1010	0080 15 16	30.09	00	00120-28	0001347.13-	7001635.8	- 0000955.23	0024188.31	02
1010	0080 15 16	31.09	00	00096.22			- 0001928.39	0024116.14	02
	0090 16 37			00144.33-			- 0001124.62	0021975.16	02
	0090 16 37			00096.22			- 0001124.62	0021999.21	02
	0090 16 37			00096.22			- 0001076.51	0022023.27	02
	0090 16 37			00096.22			- 9001076.51	0022047.32	92
	0090 16 37			00144.34			- 0001100.56	0021999.21	50
	0095 16 40			00024.06	0001419.29		- 0001148-67	0023923.69	02
	0095 16 40			00072.17			- 0001172.73	0023899.64	02
	0095 16 40			00096-22			5- 0001124-62	0023899.64	02
	0095 16 40			00096.22			- 0001100.56	0023947.75	02
	0095 16 40			00048-11			5- 000110Q.5L	0023923.69	02 02
1010	0100 16 44	22.01	vu	00000.00	0001202-03*	0001132+0	2- 0001172.73	0022889*58	UZ

10 1029	REC PY 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1		~	
TEST	COND HR	/an/sec	P90022A	P90021A	A150031A	P1800557	P00318	43
1010	0100 16	44 34,87	0000120.28	0001732.02-	0003707.97-	0001148-67	5022961.45	02
1010	0100 16	44 35.87	0000120.28	0001756.08-	0001756.08-	0001148.57	0022985.51	02
1010	0100 16	44 36,37	0000120.28	0001587.69	0001707.97~	0001143.67	0023057-68	ŪŹ
1010	0100 16	44 37.87	\$5.690000	0001563.63-	0001659.85-	0001100,56	67-1606500	02 02
1010	0021 16	52 40.66	0000120,20	0000817.89-	0001226.85-	0000932.17	3023755.30	90
1010	0021 16	52 41.86	0000268.39	0001010.34-	0001154.89-	0000932-17	3023827.47	02
1010	G021 16	52 42.66	0000144.34	0001010.34-	0001202.79-	0000932-17	0023803-41	02
		52 43.66	0000120.28	0050041.95-	0001202.79-	0000884.06	0023755.30	02
		52 44.66	9000144.36	0000017-89-	0001154.68-	6000932.17	5023779.36	02

7D 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P0032B	F90031B	P90032B	P1800318	P1800328	GP
		47 18.26	0000042.09-	0000018.04	0000000.00	0000120.27-	0000090.20-	-03
1000	0000 12	58 53.77	0000030-07	0001341.12	0000288.67	0003464.06	0000354.82~	03
		58 54-77	0000006.01	0001389.23	0000264.62	0903415.95	0000282.65-	03
1000	0000 12	58 55.77	0000006.01	0001389.23	0000240•56	0003415.95	0000354.82-	-03
		58 56.77	0000018.03-	0001341.12	0000336.78	0003367.84	(``\00306•70-	03
1000	0000 12	58 57.77	0000030.07	0001389.23	0000336.78	0003440.01	0000330.76-	03
1005	J000 13	06 59.24	0000703.64	0016664.79	0000745 • 73=		0003000.98-	03
1005	0000 13	07 00.24	0000631.47	0016712.91	0000745.73-		0003000.98~	03
		07 01.24	0000655.53	0016664.79	0000769.78-		0003025.03-	03
		07 02.24	0000679.58	0016640.74	0000793.84-		0003025.03~	03
		07 03.24	0000703.64	0016640.74	0000721.67-		0003025.03-	03
		08 54.04	0000872.03	0032253.08	0001876.36-		0004372.17-	03
	,	08 55.04	0000920.14	0032353.08	0001804.19-		0004372-17-	03
		08 56.04	0000920-14	0032253.08	0001924.47-		0004227.83-	03
		08 5.7-04	0000896.09	0037253.78	0001828.25-		0004396.22-	03
		08 58,04	0000823.92	0032204.97	0001804.19-		0004348.11-	03
		19 52+40	0001136.65	003 637.98	0001972.58-		0004468.39-	03
		19 53-40	0001136.65	0032686-09	0001996.64-		0004420.28-	03
		19 54.40	0001160.70	0032686-09	0001972.58-		0004372.17-	03
		19 55.40	0001136.65	0032637.98	0001948.53-		0004420.28-	03
		19 56.40	0001184.76	0032589.87	0001948-53-	,	0004444-34-	03
		24 23.72	0091473.43	0034658-68	0002285.31-		0004516.50-	03
		24 24.72		0034610.57			0004492-45-	03 03
		24 25.72	0001425.32	0034658-68	0002213-14-		0004420-28-	03 03
		24 26.72	0001473.43	0034610.57	0002165.03-		0004468.39-	03
		24 27.72		0034562.46	0002757.20-		0004468.39 -	03
		08 30.65	0001713.99 0001810.21	0034273.79			0004492.45-	03
		08 31.65 08 32.65		0034177.56	0002309.37-		0004492.45~	03
		08 33.65		0034277.58			0004492.45-	03
		08 34.65		0034177.56			0004492.45~	03
		16 27.09		0036053.93			0004432.45	03
		16 28.09		0036102.04	*		0004588267-	03
		16 29-09		0036102.04			0004588-67-	03
		16 30.09		0036102.04			0004612.73-	03
		16 31.09		0036053.93			0004588.67-	03/
		37 17.85		0033552.11	0002405.59-		0004468.39-	03
		37 18.85		0033455.88			0004468.39-	03
		37 19.85		0033600.22			3004444.34~	03
		37 20.85		0033503.99		0053668.94	0004420-28-	·03
		37 21.85		0033552-11		0053668.94	0004420-28-	03
		40 49.63		0036438.83	0002646.15-	0056363.21	0004660.84~	03
		40 50.63		0036390.71		0056459.43	0004636.78-	03
		40 51.63		0036390.71			0004612.73-	03
1010	0095 16	40 52.63	0002243.22	0036438-83	0002573.98-	0056266.98	0004660.84~	03
1010	0095 16	5 40 53.63	0002243.22	0036390.71	0002646.15-	0056363.21	0004636.78-	0,3
1010	0100 16	5 44 33.87	0002339.45	0C35428.47	0002622.09-	0055304-74	0004612.73	03

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LUŠÒ LD	REC PT	RATF 01	→10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P0032B	P900318	P90032B	P1800318	P180032B	GP
1010	0100 16	44 34687	0032315.39	0035380.36	0002670.21-	0055304.75	0004588-67-	03
1010	0100 16	44 35.87	0002315.39	0035476.59	0002973:98-	0055304.74	0004588.67~	03
1010	0100 16	44 36.87	0002339.45	0035572.81	0002549.93-	0055400.97	0004588.67-	03
1010	0100 16	44 37.87	0002363.50	0035620.92	0002598.04-	0055497.19	0004588-67-	03
1010	0021-16	52 40.66	0001112.59	0031916.30	0001828.25-	0054150.06	0004564.62-	03
1010	0021 16	52 41.66	0001117.59	0031868.19	0001876.36-	0054150.06	0004540.56~	03
1010	0021 16	52 42.66	0001112.59	0031916.30	0001876-36-	0054150.06	0004492.45~	03
		52 43.66		0031964.41	0001804.19-	0054150.06.	0004516.50~	03
		52 45.66		0031916.30	0001828.25-	0054053.83	0004492.45-	03

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ID 1029	REC RT 400	RATE OL	10/29/69 CONJUGATE	STRUCTURF	TEST COND 1			
TEST	COND HR	/MN/SEC	R0043A	R0042A	R0041A	R0041B	R00428	GP
0000	0000 08	47 18.26	0000048.10-	0000054-12-	- 0000018.03-	0000078.17-	0000072.16-	04
1000	0000 12	58 53.77	0001707.98	0000787.83	0000090.20-	0000210.49	0001130.63	04
1000	0000 12	58 54.77	0001780.14	0000739.72	0000018.03-	0000186.43	0001154.69	04
1000	0000 12	58 55.77	0001707.98	0000715.67	0000066-14-	0000186-43	0001106.58	:04
1000	0000 12	58 56.77	0001756.09	0000767.83	0000018.03-	0000162.38	0001106.58	04
1000	0000 12	58 57.77	0001683.92	0000739.72	0000066-14-	0000234.55	0001154.69	04
		06 59.24	0004426.30	0002327.42	0000270.63	0000619.44	0003007.00	04
1005	0000 13	07 00.24	0004450.36	0002423.64	0000294.69	0000619.44	0003031.06	04
1005	0000 13	07 01.24	0004546.58	0002423.64	0000366-85	0000643.50	0002982.94	04
1005	0Ü00 13	07 02.24	0004474.42	0002375.53	0000342.80	C000595.39	0003007.00	04
1005	0000 13	07 03.24	0004474 • 42	0002447.70	0000390.91	0000643.50	0003055.11	04
1010	0000 13	08 54-04	0007601.70	0004275.95	0000775.81	0001100.56	0005147.98	04
1010	0000-13	08 55.04	0007601.70	0004107.56	0000799.66	0001076.51	0005172.04	04
		08 56.04	0007625.75	0004251.90	0000799.86	0001100.56	0005123.93	04
1010	0000 13	08 57-04	0007553.58	0004251.90	0000751.75	0001076.51	0005147-98	04
		08 58-04	0007601.70	0004107.56	0000823.92	0001100.56	0005172.04	04
1010	0020 13	19.52.40	0007986.59	0003698.61	0000691.60-	0000463.07-	0004594.70	04
1010	0020 13	19 53.40	0007938448	0003722,67	0000691.60~	0000390.90-	0004594.70	04
1010	0020 13	19 54-40	0007986.59	0003770.70	0000619.43-	0000366.84-	0004542.81	-04
1010	0020 13	19 55.40	0007986.59	0003698.61	0000643.49-	0000439.01-	0004666.86	04
1010	0020 13	19 56.40	0008058.76	0003746.72	0000567.54-	0000390.90~	0004594.70	04
		24 23.72	0008876.66	0003361.83	0002303.35-	0002074.82-	0004306.02	04
1010	0040 13	24 24.72	0008900.72	0003433.99	0002303.35-	0002074.82-	0004354.14	04
1010	0040 13	24 25.72	0008900.72	0003433,99	0002279.30-	0002074.82~	0004306.02	04
1010	0040 13	24 26.72	0008876.66	0003409.94	0002255.24-	0002050.76-	0004330.08	04
1010	0040 13	24 27.72	0008900.72	0003433.99	0002279.30-	0002074.82-	0004354.14	04
1010	0060 15	08 30.65	0009165.34	0002856.65	-88.818.600	0003734.68-	0003704.62	04
1010	0060 15	08 31.65	0009213.45	0002832.59	0003842.94-	0003734.66-	0003728.68	04
1010	0060 15	08 32.65	0009237.50	0002832.59	0003818.88-	0003734-58-	0003704.62	04
1010	0060 15	08.33.65	0009189.39	0002832.59	0003842.94~	0003806.85-	0003704.62	04
1010	0060 15	08 34.65	0009189.39	0002832.59	0003891.05-	0003782-80-	2003680.57	04
1010	0080 15	16 27.09	0010055.41	0002519.87/	0005310.35-	0005274-27-	0003367.84	04
1010	0080 15	16 28.09	0009935.13	0002543.92	0005214 - 13	0005250-21-	0003391.90	04
1010	0080 19	16 29.09	0010031.35	0002519.87	0005238.18-	0005202-10-	0003440.01	04
1010	0080 15	16 30.09	0010007.30	0002519.87	0005214.13-	0005202-10-	0003415.95	04
1010	0080 15	16 31.09	0009959.18	0002567.98	0005286.30-	0005202-10-	0003488.12	04
101)	0090 16	37 17.85	0009622.40	0002014.69	0005935.81-	-0006068-12-	0002742.38	04
1010	0090 16	37 18.85	0009646.46	0002014,69	0005887.70-	0006044.06-	0002790.50	94
1010	0090 16	37 19.85	0009646.46	0001942.52	0005983.92~	0005947.84-	0002790.50	-04
1010	0090 16	37 20.85	0009670.51	0001990.63	0005887.70-	0006044.06-	0002742.38	Q4
1010	0090 16	37 21.85	0009598.34	0001918-47	0005959.86-	-0006020+00-	0002742.38	04
1010	0095 16	40 49.63	0010368-14	0002110.91	0006248.54-	0005380.84~	0003031-06	04
1010	0095 16	40 50.63	0010392.19	0002231.19	0006248.54-	0006332.73-	0003031-06	04
1019	0095 16	40 51.63	0010392.19	0002183.08	0006272.59-	0006332.73-	0003079.17	04
1010	0095 16	40 52.63	0016392.19	0002207.14	0006248.54-	0006380.84-	0003031.06	04
		40 53.63	0010416.25	0002207-14	0006272.59-	0006356.79-	0003055-11	04
1010	0100 16	44 33.87	0010199.74	0001894-41	0006705.60~	0006765.74=	0002694.27	04

10 1029	REC F		ATE 01	10/29/69 CONJUGATI	STRUCTURE	TEST COND 1			-
TEST	COND	HR/K	H/SEC	1043A	R0042A	ROG41A	R0041B	R00428	GP
1010	0100	16 4	4 34.87	0010223.80	0001918.47	0006681.54~	0006765.74~	0002718.33	04
1010	0100	16 4	4-35-67	0010271.91	0001942.52	0006633.43~	0006765.74-	0002766.44	04
1010	0100	14 6	4 36.87	0010271.91	0001942.52	0006633.43-	0006765.74-	0002742.38	04
1010	0100	16 4	4. 37.87	0010271.91	0001990.53	0006681.54-	0006813.85-	0002790.50	04
1010	0021	14 5	2 40.66	0007818.20	0003530.22	0000715.66~	0000607-40-	0004522.53	04
			2 41.66		C003626.44	0000739.71-	0000583.35-	0004474.42	04
1010	0021	16 5	2 42.66	0007818.20	0003578.33	0000691.60-	0000583.35-	0004498.47	04
1010	0021	16 5	2 43.66	0007856.31	0003578.33	0000715.66-	0000607.60-	2004498.47	04
1010	0021	16 5	2 44.66	0007366.31	0003602,39	0000691.60-	0000535.24-	0004522.53	64

ไป R 1029	REC PT 400	RATE 01	10/29/69 CONJUGATI	STRUCTURE	TEST COND 1			
TEST C	COND HR.	/HN/SEC	R0043B	R90043A	R90042A	R90041A	R900426	GP
0000 0	80 000	47 18.26	0000024.06	0000048-10-	0.000036.07-	0000096.21-	0000024.05-	05
1000 0	0000 12	58 53.77	0091900-42	0001635.81	0000733.71	0000096-21-	0000890.07	05
1000 0	0000 12	56 54.77	0001924.48	0001659.86	0000829.93	0000120.27-	0000938.18	05
1000 0	0000-12	58 55.77	0001852.31	0001611.75	0000805.88	0000072-16-	0000914-13	05
1000 0	0000 12	58 56.77	.000 1900 - 42	0001659.86	0000757.76	0000144.33-	0000938.18	05
1000 0	0000 12	58 57:77	0001876.37	0001635.31	0000781.82	0000120-27-	0000890.07	05
		Q6 59.24		0004330.08	0002369.52	0000481.12	0002549.94	05
		07 00.24	0004859.31	0004378-19	0002369.52	0000481-12	0002525.88	05
		07 01-24	0004835.26	0004354.14	0002393.57	0000529.23	0002598.05	05
		07 02-24	0004859-31	0004330.08	0002441.68	0000457.06	0002549.94	05
		07 03.24	0004859.31	0004378-19	0002417.63	0000505.18	0002573.99	05
		08 54.04	. 0008130.93	0007361-14	0004173.72	0001154-69	0004450.36	05
		08 55.04		0007385.19	0004149.66	0001130.63	0004450.36	05
		08 56.04	0008154.98	.0007361-14	0004221.83	0001154.69	0004426.30	05
		08 57-04	0008106.87	10001337-08	0004173.72	0001106.58	0004450.36	05
		08 58-04	0008154.98	0007361.14	0004173.72	0001130.63	0004498.47	05
		19 52.40		0007553:58	0004342-1/1	0000264-62	0004618.75	05
		19 53.40		0007625-75	0004221-83	0000264-62	0004570.64	05
		19 54-40		0007625.75	0004221.83	0000288-67	0004618.75	05 05
		19 55.40		0007577-64	0004318.05 0004221.83	0000288.67	3004642-81	05 05
		19 56.40 24 23,72		0007625.75		0000288-67	0004618.75	05
		24 24.72		0008179:04	0004630.78 0004582.67	0000505.17-		05
		24 25.72	-	0008130.93	0004506.72	0000529.22~		05
		24 26.72		0008154.98	0004606.72	0000525-22-		05
		24 27.72		0008134476	0004606.72	0000529.22-		05
		08 30-65		0008323.38	0004606.72	0001323.22		05
		08 31-65		0000325035	0004606.72	0001395.24-		05
		08 32.65		0008251-21	0004654.84	0001491.46-		05
		08 33.65		0008299.32	0004630.78	0001443.35-		05
		08 34-65		0008299.32	0004582-67	0001491-46-		05
		16 27.09		0008852-61	0004967.56	0002213-14-		05
1010	0080 15	16 28.09	0010344.08	0008876.66	0004991.62	0002189.09-	0005436.66	05
1010	0080 15	16 29-09	0010295-97	0008852-61	0004991-62	0002165-03-	0005412.60	05
1010	0080 15	16 30:09	0010344.08	0008852.61	0005015.68	0002165.03-	0005412.60	05
1010	0080 15	16 31.09	0010344.08	·0008924·78	0004943.51	0002189.09-	0005436.66	05
		37 17.85		0008443-66	0004702-95	0002790-49-		05
		37 18.85		0008443.66	0004727.00	0002814.54-		บร
-,		37 19.85		0008491.77	0094751-06	0002838.60-		05
		37 20.85		0008491-77	0004702.95	0002790.49-		05
		37 21.85		0008515.82	0004751.06	0002838.60-		05
		60 49.63		0009117,22	uuu#1:35.96	0002910-77-		05
		40 50.63		0009117.22	0005087.84	0002910-77-		05
		40 51-63		0009141.28	0005135.96	0002886.71-		05
		40 52,63		0009189.39	0005111.90	0002910.77-		05
		40 53.63		0009141-28	0005160.61	0002862-65-		05 05
TATO	ožon ,16	44 33.87	0010440.30	0008972-89	0005015+68	0003247-55-	0002400.11	US

10 1029	REC PT RATE 400 01	.1Q/29769 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR/MX/SEC	RG0438	R92043A	R90042A	R90041A	R90042B	GP
1010	0100 16 44 34-87	0010464.36	0008948-83	0004991.62	0003151.33-	0005436.66	05
	0100 16 44 35.87	0010512.47	0008996.94	0005063.79	0003175.38-	0005556.94	05
	0100 16 44 36.87		0008372-89	0005039.73	0003127.27-	0005484.77	05
	0100 15 44 37.87		0009021.00	0004991,62	0003127-27-	0005480.71	05
	0021 16 52 40.66		0007457.36	0004149-66	0000120-28	0004594.70	05
	0021 16 52 41.66		0007505.47	0004197.77	0000120-28	0004618.75	05
	0021 16 52 42.65		0007457.36	0004173.72	0000143.39	0004618.75	05
	0021 16 52 43.66		0007481.42	0004135-60	0000096.22	0004546.58	65
	0021 16 62 64.66		0007529-53	0004174-72	0000144.34	0006570-66	05

ID 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	R90041B	R900438	P0051A	P0052A	P1 80051A	GP
0000	0000 08	47 18.26	-00.00006-00	0000030.07	0.000024-05-	0000000-00	0000030-06-	,06
1000	0000 12	58 53.77	0000114.27	0001762.10	0000505.18	0001058.46	0000186-43	06
1000	0000 12	58 54-77	0000114-27	0001762-10	0000505.18	0001010.35	0000186.43	06
1000	0000 12	58 55.77	0000042.10	0001713.99	0000481-12	0000938.18	0000186.43	06
1000	0000 12	58 56.77	0000090.21	0001786.16	0000505.18	0001010.35	0000234.55	06
1000	0000 12	58 57.77	0000066.15	0001762.10	0000481-12	0001010.35	0000138-32	06
1005	0000 13	06 59.24	0000571.33	0004648.82	0002525.88	0002020.70	0001557.63	06
1005	0000 13	07 00.24	0000619.44	0004600.71	0002622.10	0002020.70	0001557.63	06
		07 01.24	0,000595.39	0004600.71	0002598.05	0001996-65	0001581.68	90
1005	0000 13	07 02-24	0000571-33	0004600.71	0002598.05	0001972.59	0001581-68	90
1005	0000 13	07 03.24	0000547.27	0004600.71	0002549.94	0001972.59	0001581-68	90
		08 54.04	. 0001124-62	0007559,60	0004931-48	0003151.34	0003121-27	06-
		08 55.04	0001124-62	0007563.65	0004931.48	0003175.39	0003145-32	06
1010	0000 13	'08 56.04	0001124.62	0007607,71	0004907.42	0003115.39	0003169.38	06
1010	0000 13	08 57.04	0001148.67	0007607.71	0004907.42	0003223.50	0003121-27	06
		08 58.04	0001146-67	0007607.71	0004907-42	0003223.50	0003145.32	06
		19 52-60	0000258.60	0007727.99	0002646-16	0003488.12	0002495-81	06
		19 53.40	0000306.71	0007752.05	0002646.16	0003512.18	0002423.64	06
		19 54-40	0000258-60	0007727.99	0002622-10	0003536.23	0002495-81	06
		19 55.40	0000282.66	0007679.88	0002646116	0003512.18	0002495-81	06
		19 56.40	0000306.71	0007752.05	0002694.27	0003512.18	0002423-64	06
		24 23.72	0000487-12-		0000457-06	0003993.30	0002086-86	06
		24 24-72	0000439.01-		0000433-01	0004017.35	0002183.08	06
		24 25.72	0000439.01~		0000408.95	0003993.30	0002110-91	06
		24 26.72	0000511.18-		0000408-95	0004017-35	0002062+80	90
		24 27.72	0000439.01-		0000433.01	0004017.35	0002086-86	06
		08 30-65	0001305.03-		0002068.81-		0001461.40	06
		08: 31.65	0001353.14-		0002020-69~		0001461-40	06
		08 32-65	0001353.14-		-98.5605000		0001461-40	06
		08 33.65	0001329.08-		0002020-69-		0001437-35	06
		08 34-65	0001353-14-		0002044-75-		0001413-29	90
		16 27-09	0002098-88-				0000835.95	06 06
		16 28.09			0004041-40-		0000932-17	06
		16 29.09			-0004017-34-		0000908-11	06
		16 30.09	0002050-76-		0004017.34-		0000956-23	06
		16 31.09	0002026.71-		0004041.40-		0000932-17	06
		37 17.85	0002604.05-		0005556.93-		0000282.66	06
		37 18-85					0000306-71 0000234-55	06
		37 19.85	0002628.11- 0002604.05-		0005556.93-		3000282.66	06
		37 20.85					0000258.66	06
		37 21-85					0000298480	06
		40 49.63	0002700.28- 0002700.28-				0000402194	06
		40 50.63					3000426.99	06
		40 51.63					0000451.05	06
		40 52.63 40 53.63					0000431405	06
							0000426+99	06
1010	ATAN TO	44 33.87	0003013400-	VVU0100.72	00007 1 1 000°	0000003103	2020000000	76

ELEMENT STRESS

10 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEȘT	COND HE	/HN/SEC	R900412	R900438	P00514	P0052A	P180051A-	GP
1010	0100 16	44 34-87	0002916.78-	0008762.40	0006567.28-	0005003.65	0000090-21	06
1010	0100 16	44 35-87	0002964.89-	0008810.51	0006495.11-	0005027.70	0000138-32	06
1010	0100 16	44 36-87	0002964-89-	0008786.45	0006471-05-	0005027.70	0000018-04	06
		44 37.87	0002940-84-	0008834.57	0006447.00-	0005051-76	0000114-27	06
		52 40.66	0000186.43	0007487.43	0002522.10	0003440.01	0002423-64	06
		52 41.66	0000210-49	0007487.43	0002622.10	0003488.12	2002447.70	06
		52 42.66	0000162.38	0007511.49	0002622.10	0003512.18	0002471.75	30
		52 43.66	0000258.60	0007311.49	0002646.16	0003488.12	0002423-64	06
		52 44.66	0000234.55	0007511.49		0003512-18	0002447.70	06

1D 1029	REC FT 400	RATE Ol	10,53/63 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR.	/MN/SEC	P180052A	P9071A	P0072A	P180071A	P180072A	GP
0000	80 0000	47 18.26	-00.4000000	0000012.03	0.000036.07-	0000006.01	0000048.10-	07
1000	0000-12	58 53.77	0001509.51	0000998.32	0002104.90	0000390.91	0001611.75	07
1000	0000 12	58 54.77	0001461.40	0000998.32	0002056.79	0000366.85	0001659-86	.07
1000	0000 12	58 55.77	.0001461.40	0000974.27	0002080.84	0000318.74	0001587.70	07
1000	'0000 12	58 56.77	0001461.40	0000974.27	0002056.79	0000342.80	0001611.75	07
1000	0000 12	58 57.97	0001485.46	0000950.21	0002032.73	0000366.85	0001539.58	07
1005	0000 13	06 59.24	0003073.15	0002586.02	0004414.28	0001184.76	0003680.57	07
1005	0000 13	07 00.24	0003049+10	0002561.96	0004438.33	0001184.76	0003632.46	07
1005	0000 13	07 01.24	0003073.15	0002561.96	0004510.50	0001184.76	0003704.62	07
1005	0000 13	07 02.24	0003073.15	0002537.91	0004510.50	0001184.76	0003584.34	0 7
1005	0000 13	09 03.24	0003097.21	0002537.91	0004462.39	0001208.81	0003656.51	07
1010	0000 13	08 54.04	0004901-41	0004294.00	0007108.55	0002243.22	0006086,17	07
1010	0000 13	08 55.04	0004853.30	0004318-05	0007984.49	0002195.11	0006134.28	03
1010	0000 13	08 56.0%	0004901.41	0004318.05	0007132.60	0002219.17	0005965.89	07
		08 57.04	0004877.35	0004269.94	0007108.55	0002243.22	0005989.94	07
		08 58.04	0004877.35	0004342,11	0007108.55	0002219.17	0006038.06	07
		19 52.40	0004949.52	0003860.99	0007349.11	0002074.83	0006014.00	07
		19 53.40	0004901.41	0003812.88	0007349.11	0002098-89	0006158.34	07
		19 54.40	0,004949.52	0nn3860.99	0007325.05	0002098-89	0006014.00	07
		19 55.40	0004901.41	0003836.93	0007373.16	0002147.00	0006014.00	07
		19 56.40	0004973.58	0003836.93	0007421.28	0002122.94	0006038.06	07
		24 23.72	0005117.91	0003548.26	0007926.45	0002026-72	0006278.62	07
		24 24.72	0005166.03	0003644.48	0007974.56	0002026.72	0006374.84	07
		24 25.72	0005166.03	0003596.37	0007998.62	0002050-77	0006326.73	07
		24 26.72	0005117-91	0003596.37	0007950.51	0002098.89	0006374.84	07
		24 27.72	0005117.91	0003620.43	-0007974.56	0002098.89	0006422.95	07
		08 30.65	0005117.91	0003067.14	0008094.84	0001858-33	0006254.56	07
		08 31.65	0005069.80	0003067-14	0008142.96	0001882-38	0006278.62	07
		08 32.65	0005093:86	0003091.20	0008094.84	0001930.49	0006302.67	07
		08 33.65		0003043.08	0008142.96	0001930.49	0006447.01	07
		08 34-65	0005117.91	0003043.08	0008118.90	0001882.38	0006254.56	07
		16 27.09	0005334.42	0002850.64	0008696.24	0001810.21	0006687.57	07 07
		16 28.09		0002850.64	0008696.24	0001786.16	0006687.57	07
		16 29.09 16 30.09	0005358-47	0002874-69	0008744.36	0001834.27 0001810.21	0006567.29 0006567.29	0,7
			0005382.53	0002850.64	0008696.24	0001810.21		07
		16 31.09 37 17.85	0005358 . 47 0005069 . 80	0002297.35	0008335.40	0001521.54	0006615.40 0006254.56	07
		37 18.85	0005093.86	0002249.24	0008287.29	0001545-60	0006278.62	07
		37 19.65	0004997.63	0002249.24	0008335.40	0001545.60	0006158.34	07
		37 20.85	0005069.80	0002297-35	0008311.35	0001593.71	0006302.67	07
		37 21.85	0005037.80	0002273.29	0008311-55	000139341	0006278.62	07
		40 49.63	000517171	0002537.91	0008353.46	0001713.99	0006735.68	.07
		40 50.63	0005406.59	0002537.91	0008984.92	0001689.93	0006687.57	97
		40 51.63	0005430.64	0002537.91	0008888.69	0001713.99	0006711.62	07
		40 52.63		0002513.85	0008960.86	0001762.10	0005663.51	07
		40 53.63	0005430.64	0002561.96	0008960.86	0001738-05	0006687.57	07
		44 33.87		0002273.29	0008816.52	0001497.49	0006471.06	07

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1029	REC PT 400	RAT O		10/29/69 CONJUGAT	E STRUCTURE	TEST COND 1	-		
TEST	COND H	R/HN/	SEC.	P180052A	P0071A	P0072A	P180071A	P180072A	GP
1010	0100 1	6 44	34.87	0005334-42	0002249.24	0008768.41	0001569.65	0006447.01	07
1010	0100 1	6 44	35.87	0005334.42	0002321,40	0008816.52	0001497.49	0006567.29	07
1010	0100 1	6 44	36.87	0005358-47	0002345.46	0008792.47	0001497-49	0006495.12	07
1010	0100 1	6 44	37.87	0005356.47	0002273.29	0008840.58	0001593.71	0006591-34	07
	0021 1			0004829.24	0003812.88	0007252.88	0002026.72	0006038.03	07
1010	0021 1	6 52	41.66	0004805.19	0003788.82	0007228.83	0002026.73	0005941.83	07
1010	0021 1	6 52	42.66	0004853.30	0003812.88	0007228.83	0002074.83	0005965.89	0.7
	0021 1		,	•	0003740.71	0007180.72	0002026.72	0005989.94	07
	0021 1				0003012.88	0007276.94	0002098.89	0005941.83	07

10 1029	REG PT 400	RATE 01	10/29/69 CDNJUGATE	STRUCTURÉ	TEST COND 1			
TEST	COND HR	/HN/SEC	P0091A	POG9ZA	P180091A	P180092A	r11510v	GP
0000	0000 08	47 18.26	0000018.04	0000012.02-	0.000048 - 1.0-	0000030.07	0000054.12-	8Ò
1000	0000 12	58 53.77	0000102.23-	0001070.49	0000072.16-	0001112.59	0000330.77	08
100G	0000 12	58 54.77	0000006-00-	0000998.32	0000048-10-	0001112.59	0000354.83	08,
1000	0000 12	58 55.77	0000078.17-	0001022.38	0000072.16-	0001088.53	0000354.83	cas
		58 56.77	0006054.12-		0000024.06	0001089.53	0000523.22	08
		58 57.77	0000078.17-		0000048-10-	0001112.59	0000475-11	08.
		06 59-24	0000956-23	0002080.84	0000457.06	0002026.72	0000835.95	08
1005	0000 13	67 00-24	0000980.28	0002080.84	0000505.18	0002050.77	0000884-26	90
		(7 01.24	0000956.23	0002080.84	0000505.18	0002026.72	0000908-11	08
		37 02.24	0001028.39	0002104.90	0000433.01	0002074.83	0001052.45	80
		07 03.24	0000980.28	0002104.90	0000457.06	0002026.72	0001028.39	08
		08 54.04	0002134.97	0003331.76	0001034.41	0003133.29	0001196.79	08
1010	0000 13	08 55.04	0002134.97	0003307-70	0001082.52	0003133.29	0001244.90	08
1010	0000 13	08 56.04	0002159.03	0003259.59	0001082.52	0003133.29	0001244.90	08
1010	0000 13	08 57.04	0002134.97	0003331.76	0001106.58	0003109.24	0001293-01	08
		08 58-04	0002159.03	0003307.70	0001130.63	0003061-13	0001317-07	08
1010	0020 13	19 52.40	0000066.15	0003452.04	0000649.51	0003205.46	0001076.51	98
		19 53.40	0000090-21	0003548.26	0000673.57	0003205.46	0001172.73	08
		19 54.40	0000186-43	0003500-15	0000673.57	0003205-46	0001268.95	Q8
1010	0020 13	19 55.40	0000066-15	0003500.15	0000673.57	0003205.46	0001268.95	08
		19 56.40	0000138.32	0003548.26	0000649.51	0003229.52	0001196.79	08
		24 23.72	0001954-54-		0000360.84	0003421.97	0001244.90	Q8 ³
		24 24.72	0001978.65-	0003885.04	0000408.95	0003470.08	0001244.90	08
		24 25.72	0001978260-	0003885.04	0000408-95	0003470.08	0001148.67	08
1010	0040 13	24 26.72	0001978-60-	0003909.10	0000360-84	0003470.08	0001148.67	80
		24 27.72	.0001978.60-	0003909.10	0000384.90	9003494.13	0001100.56	68
1010	0060 15	08 30.65	0004408.25~	0004125.60	0000096-21-	0003494.13	0001100.56	08
1010	0060 15	08 31.65	0004384.20-	0004101.55	0000024-05-	0003494-13	0001100-56	Qθ
1010	0060 15	08 32.65	0004432.31-	0004029.38	0000024.06	0003518.19	0001004-34	80
1010	0060 15	08 33.65	0004360-14-	0004005.32	0000000.00	0003494,13	0001076.51	80
1010	0060 15	08 34.65	00/04360.14-	0004053.44	0000024-05-	0003518.19	0001124-62	80
1010	0080 15	16 27.09	0006380+84~	0004414-28	0000360.83-	0003782.81	0000980-28	08
1010	0080 15	16 28.09	0006380.84=	0004390.22	0000384.89-	0003758,75	0000908-11	08
1010	0080 15	16 29.09	0006356.79-	0004414.28	0000360.83-	0003806.86	0001100-56	08
1010	0080 15	16 30.09	0006428-96-	0004414.28	0000336.77-	0003758.75	0001004.34	08
1010	0080 15	16 31.09	0006356.79-	0004414.28	0000360.83-	0003782.81	0001004.34	08
1010	-0090 16	37 17.85	0007679.87-	0004390-22	0000745.73-	0003590.36	0000908.11	80
1010	0290 16	37 18.85	0007679.87-	0004390.22	0,000721.67-	0003614-41	0000956-23	80
1010	G090 16	37 19.85	0007727.98-	0004366.16	-50-1570000	0003614.41	0001052.45	Q8
1010	0090 16	37 20.85				0003614.41	0000932.17	80
1010	0090 16	37 21.85	0007631.76-	00043902	0000721-67-	0003614.41	0000980-28	08
1010	0095 16	40 49.63	0008040.71-	0004702.95	0000745.73-	0003830.92	0000980>28	08
1010	0095 16	40 50.63			0000673.56~		0001004.34	80
		40 51.63			0000697.61-		0000908-11	Ú8
		40 52.63		0004654.84		000385# 97	0001076.51	80
		40 53.63				0003854.97	0001028.39	80
1010	0100 16	44 53.87	0008618.05-	0004582.67	0000866.01-	0003806.86	0000956.23	08.

10 1029	KEC PT RATE 400 Q1	10/29/69 CGNJUGATE	STRUCTURE	TEST COND-1			
TEST	COND HRAMMASEC	P0091A	P0092A	P180091A	P180092Á	L11210A	GP
1016	Ó100 16 44 34.87	©008518.05∞ ≪	0004606.72	1000866.01-	0003830.92	0000956-23	08
1010	0100 16 44 35.87	0008618.05=	0004654.84	0000890-06-	0003854.97	0000908.11	Ú8
1010	0100 16 44 36.87	0008594.00-	0004654.84	0090841.95~	0003830.92	0001004.24	80
	0100 16 44 37-87	0306569.94- (0004678.89	0000866.01-	0003903.09	0000932/17	GB.
1010	0021 16 52 40.65	0000054-12-	0003620.43	0000625.46	0003157.35	3001124.62	QB
	0021 16 52 61.66		0003620.43	0000625.46	0003181-41	0001227.84	80
	0021 16 52 42.66		0003620-43	0000625.46	0003205.46	0001100.56	08
	0021 16 32 43.66				0003157.35	0001220.84	08
	0021 16 52 44-66		0003620.43	0000625.46	11003205.46	0001196.79	08

ID 1029	REC PT	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND. HR.	/HN/SEC	R0113A	ROLLEA	R0111A	R901_3A	R90112A	GP
0000	0000 08	47 18.26	0000006.00-	0000056.15	05101,024.,05-	0000006.01	0000006.01	09
1000	0000 12	58 53.77	0003000-99	0001293.01	0000240-56	0003085.18	0001858.33	09
1000	0000 12	58 54-77	0002904.76	0001365.18	0000312.73	0003037.07	0001906-44	09
1000	0000 12	58 55.77	0002880.71	0001341.12	0000264 .6.2	0003085.18	0001882.38	09
1000	0000 12	58 56.77	0002952.87	0001365.16	0000312.73	0003037.07	0001906.44	09
1000	0000 12	58 57.77	0002904.75	0001365.18	0000312.73	0003637.07	0001834-27	09
1005	0000 13	06 59-24	0004636.79	C002640-15	0001347.14	0005442.67	0003614.41	09
1005	:0000 13	07 00-24	0004564.63	0002664.20	0001347.14	0005418.61	0003662.53	09
1005	0000 13	07 01-24	0004588.68	0002683.26	0001323.08	0005394.56	0003662.53	09
1005	0000 13	07 02-24	0004588.68	0002712.31	0001323.08	0005418.61	0003638.47	09
		07 03.24	0004612.74	0002712.31	0001395.25	0005394.56	0003662.53	09
		08 54.04	. 0006465.05	0004227.84	0002501.82	0008064.77	0005683.23	09
		08 55.04	0006465.05	0004179.73	0002501.82	0008088.83	0005659.17	09
		08 56.04	0006513.16	0004227.84	0002525.88	0008040.72	0005635.12	09
1010	0000 13	Q8 57.04	0006489-11	0004179.73	0002477.77	0008064.77	0005659.17	09
		08 58-04	0006513.16	0004179.73	0002501.82	0008040.72	0005659.17	09
		19 52.40	0007090.51	0003578.33	0000769.79	0008233.17	0005779.45	09
		19 53.40	0007090.51	0003626.44	0000745.74	0008305.33	0005803.51	09
		19 54.40	0007114.56	0003578.33	0000745.74	0008281.28	0005827.57	0.9
		19 55.40	0007138.62	0003602-39	0000745.74	0008257.22	0005851.62	09
		19 56.40	0007186.73	0003578.33	0000745574	0008281.28	0005875.68	09
		24 23.72	0008076,80	0003241.55	40000841.95-	0008810.51	0006092.18	09
		24 24.72	0008148.97	0003169.38	0000841.95-	0008762.40	0906164.35	09
1010	0040 13	24 25.72	0008028.69	<pre><0003241.55</pre>	0000817.89-	0008810.51	0006116.24	09
		24 26.72	0008076.80	0003217.49	0000841.95-	0008786.45	0006140.29	09
		24 27.72	0008028.69	0003265.60	0000841.95-	0008762.40	0006164.35	09
		08 30.65		0002567.98	0002790.49-	0008858.62	2006212.46	09
		08 31.65	,0008726 . 31	0002471.75	0002766.43-		0006260.57	09
		08 32.65	0003726.31	0002519.87	0002790.49-	0008858.62	0006108.41	09
		08 33.65		0002519.87	0002790,49-		0006212.46	09
		08 34.65	0008750.37	0002567.98	0002814.54-		0076236.52	09
		16 27.09	0009592.33	0002134.97	0004402.24-		0006525.19	09
		16 28-09	0009592.33	0002134.97	0004378-18-		0006453.02	09
		16 29.09	0009564-50	0002134.97			0006949.25	<u>0</u> 9
		16 30.09	0009616.39	0002159.03	0004378.18-		0006501-13	Q)
		16 31.09	0009568-27	0002183.08	0004426.29-		0006525: 19	09
		37 17-85	0009856-95	0001581.68			0006164.35	09
		37 18.85	0009784.78	0001653.85	0005484.76-	-	0006164.35	09
		37 19.85		0001629.79	0005436.65-		0006188.41	0.8
		37 20-85		0001605.74	0005460-70-		0006164.35	09
		37 21.85	0009808.83	0001581,48	0005484-76-		0006188.41	09
		40 49.63		0001750.07	0005749.37-		0006597.36	09
		40 50.63		0001750.67	0005749.37-		0006573.30	09
		40 51.63	0010410-25	0001798.19	0005797.49-		0006597.36	09
		40 52.63		0001750-07			0006621.41	09
		40 53.63		0001750-07	0005773.43-		0006597-36	09
Info	0100 16	44 33.87	0010410.23	0001509.51	00063/4.83-	U009532.19	0006477.08	09

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1029	REC :P1 400		ATE Di	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1		=	
TEST	COND I	HR/K	N/SEC	R0113A	R0112A	R0111A	R90113A	R90112A	GP
1010	0100	16 4	4 34.87	0010458.35	0001509-51	0006326.72-	0009556.25	0006525-19	09
1010	0100	16 4	\$ 35.87	Q010386.18	0001533.57	0006278,61-	0009556.25	0006525.19	09
1010	0100	16 4	36687	0010434.29	0001509.51	0006302.66-	0009556.25	0006525.19	09
1010	0100	16 4	\$ 37.87	0010458.35	0001533.57	0006302.66~	0009532.19	0006549.25	09
1010	0021	16 5	2 40-66	0007379.18	0003482-11	0000649.51	0008185,05	0005559-17	09
1010	0021	16 5	41.66	0007451.35	0003530.22	0000721.68	0008185.05	0005659.17	09
1010	0021	16 5	42.66	0007427.29	0003530.22	0000625.46	0008185.05	2005707-29	69
1010	0021	16 5	2 43.66	0007379.18	0003482.11	0000673.57	0008136.94	0005683-23	09
1010	0021	16 5	44.66	0007451.35	0003506.16	0000673.57	1008161.00	0005707.23	09

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ID 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	FEST COND 1			
TEST	COND HE	R/MN/SEC	R90111A	P177121A	P177122A	P180131A	P180132A	GP
0000	0000 08	47 18.26	0000030.06-	0000012.02-	0000066.14-	0000072.17	0000078.17-	10
1000	0000 12	2 58 53.77	0000547.27	0001671.89	000553889	0001563.63-	0001665.87-	10
1000	0000 12	2 58 54.77	0000571.33	0001671.89	0005538.89	0001587.69-	0001665-87-	10
		2 58 55.77	0000547.27	0001671.89	0005538.89		0001689.92-	10
		2 58 56.77	0000523.22	0001671.89	0005490.78		0001641-81-	10
		2 58 57.77		0001647.84	0005490.78		0001641.81-	10
		3 06 59-24	0001629.79	0004582.67	0010975.55		0003301.68-	16
		3 07 00-24	0001653.85	0004582.67	0011023.66		0003253.56-	10
		3 07 01-24	0001701.96	0004606-72	0010975.55		0003301-68-	10
		3 07 02.24	0001701.96	0004582-67	0010975.55		0003349.79-	10
		3 07 03.24	0001653.85	0004654.84	0010951.49	0003031.05-		10
		3 08 54-04	0002928.82	0007517.50	0017254.17		0005250.21-	-10
		3 08 55.04 3 08 56.04	0002880.71 0002904.76	0007493.44	0017182.00		0005226.16- 0005274.27-	10 10
		3 08 57.04	0002952.87	0007493.44	0017157.94 6017206.05		0005250-21-	10
		3 08 58-04	0002880.71	0007445.33	0017133-89		0005178-04-	10
		3 19 52.40	0002000211	0007397.22	0017013.61		0005202-10-	10
		3 19 53.40	0002231.19	0007397.22	0016965.49	0004690.91-		10
		3 19 54.40	0002207-14	0007373.16	0016965.49		0005202.10-	10
		3 19 55.40	0002207.14	0007373.16	0016939.55		0005202-10-	io
		3 19 56-40	0002183.08	0007373.16	0016989.55		0005226.16-	10
1010	0040 1	3 24 23.72	0001581.68	0007493.44	0017446.61		0005466-72-	10
1010	0040 1	3 24 24.72	0001557.63	0007493.44	0017542.84	0004835.25-	0005394.55-	10:
1010	0040 13	3 24 25.72	0001557.63	J007541.56	0017566.89	0004811-19-	0005370-49-	10
1010	0040 13	3 24 26.72	0001605.74	0007517.50	0017446.61	0004859-30-	0005466.72-	10
		3 [,] 24 27.72	0001501.68	0007517.50	0017518.78	0004811.19-	0005370-49-	10
		5 08 30-65	0000691.61	0007275.94	9017302.28		0005274.27-	10
		5 98 31.65	0000763.78	0007325.05	0017254.17		0005274-27-	10
		5 08 32.65	0000691.61	0007252.88	0~17278.22		0005298.32-	,10
		5 08 33.65	0000715.67	0007325.05	0017278.22		0005274.27-	10
		5 08 34.65	0000691.61	6007325-05	0017254-17		0005274-27-	10
		5 16 27-09	0000066.15	0007445.33	0017807.45		0005538.88-	10
		5 16 28.09	0000138.32	0007445.33	0017735-29		0005514.83-	₁0 10
		5 16 29.09 5 16 30.07	0000090.21 0000090.21	0007397 . 22 0007469 . 39	0017759.34		0005490.77-	10
		5 16 31.0y	0000042.10	0007445.33	0017807.45		0005514.65-	10
		6 37 17.85	0000511.18~		0016797.10		0005178.04~	10
		6 37 18 35	0000511.18-		0016773.05		0005153.99-	iŏ
		6 37 13.85	0000535.24-		0016773.05		0005225.16-	10
		6 37 20.85	0000511.18-		0016700.88		0005153.99-	10
		6 37 21.85	0000535.24-		0016797-10		0005153.99~	10
		6 40 49.63	0000463.07-		0017879.62		0005567.00-	10
		6 40 50.63	0000559.29-		0017879.62		0005587-00-	10
		6 40 51.63	0000487.12-		0017903.68		0005587.00-	Ŷυ
1010	0095 1	6 40 52.63	0000511.18-	0067421.28	0017879.62	0004931.47-	0005514-83-	10
		6 40 53.63	0000487,12-	-,	0017855.57		0005514.83-	10
1010	0100 1	6 44 33.87	0000799.85-	0007204.77	0017422.56	0004763.08-	0005416-60-	10

10 1029	REC F	-	RATE 01	10/29/69 CON	JUGATE	STRUCTURE	TEST COND 1			
TEST	COND	HR/	MN/SEC	R90)111A	P177121/	P177122A	P180131A	P180132A	GP
1010	0100	16	44 34.6	7 000075	1.74- (0007180.72	0017374.45	0004763.08~	0005418,60-	10
1010	0100	16	44 35.6	7 010075	1.74- (0007204.77	0017374.45		0005442.66-	10
1010	0106	16	44 36.8	7))(075	1.74- (0007228.83	0017422-56	0004787.13-	0005418-60-	ĺO
1010	0100	16	44 37.8	7 800072	7.68- 0	0007204.77	0017446.61	0004811.19-	0005418-60-	10
			52 40.6		0.91	0007204.77	0017157.94	0004594.69-	0005274.27-	10
1010	0021	16	52 41.6	6 000213	4:97 (0007276.94	0017085.77	0004570-63~	0005298.32-	10
1010	0021	16	52 42.6	6 000215	9.03 (0007325.05	0017109.83	0004618.74-	0005274-27-	10
1010	0021	16	52 43.6	6 000211	0.91	0007301.00	0017182.00	0004618.74-	0005274.27-	to
1010	0021	16	52 44.6	6 000215	9.03 (0007301.00	0017061.72	0004570-63-	0005298.32-	10

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1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P00618	P0062B	P180061B	P1800628	P00818	GP
0000	80 0000	47 18.26	0000042.09-	0000024.05-	0000012.02-	0000000400	0000018,04	11
1000	0000 12	58 53.77	0000847.97	0000288.67	0000829+93	0001226.86	0000042.10	11
1000	0000 12	58 54.77	0000920-14	0000336.78	0000853.99	0001250.91	0000042.10	1/1
1000	0000 12	58 55.77	0000872.03	0000336.78	0000853,99	0001250.91	0000018.04	11
		58 56.77	0000847.97	0000312-73	0000853.99	0001299.02	0000018-04	11
1000	0000 12	58 57.77	0000847.97	0000312.73	0000805.88	0001274,97	0000042.10	11
		06 59.24	0000920.14	0000553.29	0001455.39	0001419.30	0000198.45-	11
1005	0000 13	07 00-24	0000920-14	0000577.34	0001383.22	0001467.42	0000246.56-	11
1005	0000 13	07 01.24	0000992.31	0000553-29	0001359.16	0001419.30	0000246-56-	11
1005	0000 13	07 02.24	0000920.14	0000577+34	0001383.22	0001419.30	0000246.56-	11
1005	0000 13	07 03.24	0000920-14	0000577.34	0001407.28	0001443.36	0000222.51-	11
1010	0000 13	08 54.04	0000944-20	0000866.02	0001864.34	0001635.81	0000439.01-	11
		08 55.04	0000944.20	0000914-13	0001840-28	0001683.92	0000439:01-	11
		08 56.04	0000895.09	0000914-13	0001912-45	0001756.09	0000511-18-	11
		08 57-04	0000920.14	0000890-07	0001864-34	0001780-14	0000463.07-	11
		08 58.04	0000920-14	0000866.05	0001888.40	0001683.92	0000439.01-	11
		19 52.40	0001353.15	0000697.62	0001864.34	0001611.75	0000439.01-	11
		19 53.40	0001329-09	0000745.74	0001888.40	0001611.75	0000414.96-	11
		19 54.40	0001377-21	0000769.79	0001888.40	0001611.75	0000511-18-	11
		19 55.40	0001377.21	0000745.74	0001864-34	0001683.92	0000414.96-	11
		19 56.40	0001377-21	0000745.74	0001912-45	0001659.86	0000390-90-	11
		24 23.72	0001834-27	0000553-29	0002056.79	0001611.75	0000439-01-	11
		24 24-72		0000601-40	0001984.62	0001635.81	0000414.96-	11
		24 25.72	0001882.38	0000553.29	0002008.68	0001659.85	0000439-01-	11
		24 26.72	0001786-16	0000577-34	0002056-79	0001611.75	0000414.96-	11
		24 27-72		0000577-34	0002080-84	0001611.75	0000414-96-	11
		08 30.65		0000360.84	0002153.01	0001635.81	0000318-73-	11
		08 31.65		0000336.78	0002177-07	0001707.98	0000294.68-	11
		08 32.65	0002243.22	0000312-73	0002128-96	0001707.98	0000342.79-	11
		08 33.65		0000360.84	0002177.07	0001659.86	0000318.73~	11
		08 34-65	0002219-17	0000360-84	0002128-96	0001683-92	0000294-68-	11
		16 27.09		0000168.39	0002417.63	0001635.81	0000318.73-	11
		16 28.09		0000144-34	0002441-68	0001635.81	0000366.84-	11
		16 29-09		0000144-34	0002393.57	0001659.86	0000294.68-	11
		16 30.09		0000192.45	0002393.57	0001635.81	0000318.73-	11 11
		16 31.09		0000168-39	0002393.57	0001635.81	0000342.79-	11
		37 17.85			0002586.02	0001467.42	0000342-79-	
		37 18.85			0002586.02	0001443.36	0000342-79-	11 11
		37 19.85		0000046.10-		0001539.58	0000366.84-	11
		37 20.85		0000048-10-	0002610+08	0001515.53 0001491.47	0000318-73- 0000390-90-	11
		37 21.85			0002586.02	0001491.47	0000390.90-	11
		40 49.63			0002586.02	0001563.64	0000318-73-	11
		40 50.63		0000072-16-		0001515.53	0000366-84-	11
		40 51.63 40 52.63		0000072-18-		0001313.33	0000366.84~	11
		40 53.63			0002586.02	0001491.47	0000366-84-	ii
		44 33.87			000258-19	0001419.30	0000366.84-	ii
1010	OTON TO	- TT 22001	0003300000	2200150151			T-30500101	

10 1029	'REC 1		RA1		10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND	HRA	'MN/	SEC	P0061B	856009	P1800618	618006 \$8	P0081B	GP
1010	0100	16	44	34.87	0003590.36	0000120-27-	- 0002610.08	0001467-42	0000318.73-	11
		-		35.87	0003542.25	0000120-27-	0002682-24	0001467.42	0000366.84-	11
				36.87	0003542.25	0000144.33-	0002658.19	0001443.36	0000342.79-	11
1010	0100	16	44	37.87	0003542.25	0000096.21-	0002682.24	0001443.36	0000318.73-	11
				40.66	-0001353.15	0000625-46	0001671.89	0001635.81	0000559-29-	11
				41.66	0001377-21	0000649-51	0001744.06	0001732.03	.0000535.24-	11
				42.66		0000673.57	0001744.06	0001707.98	0000559-29-	11
			-	43.66		0000673-57	0001695.95	0001683.92	0000583.35-	11
			-,-	44.66	*********	0000697.62	0001744.06	0001659.86	0000535.24-	11

ID 1029	REC PT. 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			٥
TEST	COND HR.	/MN/SEC	P0082B	P1800818	P1800828	L11210B	R01118	GP
0000	0000 08	47 18.26	0000006.01	0000066-14-	0.000006.01	0000078.18	0000048-10-	12
1000	0000 12	58 53.77	0000366.85	0000258.59-	0000607.41	0000234.54-	0001130.62-	12
1000	0000 12	58 54.77	0000342.80	0000234.54-	0000583.36	0000258.59-	0001082.51-	¥2 ·
1000	0000 12	58 55.77	0000294.69	0000210.48-	0000607.41	0000282.65-	0001130.62-	12
1000	0000 12	58 56.77	0600366.85	0000282.65-	0000583.36	0000282.65-	0001130-62-	12
1000	0000 12	58 57.77	0000366.85	0000282.65-	0000535.25	0000306.70-	0001130-62-	12
1005	10000 13	06 59.24	0000968.25	0000475.10-	0001088.53		0001395.24-	12
1005	0000 13	07 00.24	0000944.20	0000475.10-	0001088.53	0000595.38-	0001395.24-	12
1005	0000 13	07 01.24	0001016.37	0000475.10-	0001112.59	0000547-26-	0001347-13-	12
1005	0000 13	07 02.24	0000992.31	0000451.04-	0001136.65	0000643.49-	0001395.24-	12
1005	0000 13	07 03.24	0000992.31	0000451.04~	0001136.65		0001299.01-	12
		08 54.04	0001713.99	0000715.66-	0001786.16	0000787.82-	0001635-80-	12
		08 55.04	0001762.10	0000739.71-	0001810.21	0000787.82-	0001587.69~	12
		08 56.04	0001762.10	0000667.54~			0001611.74-	12
1010	0000 13	08 57.04	0001762.10	0000739.71-	0001810.21	0000715.66-	0001611.74-	12
		08 58.04	0001762.10	0000715.66-			0001635.80-	12
		19 52.40	0001738.05	-09.1690000			0003488.81-	12
		19 53.40	0001738.05	0000739.71-			0003415-94~	12
		19 54.40	0001762.10	0000691.60-			0003464.05-	12
		19 55.40	0001713.99	0000691.60-			0003488-11-	12
		19 56.40	0001689.93	0000691.60-			0003464.05~	12
		24 23.72	0001762.10	0000715.66-			0005268-25-	12
		24 24.72	0001786.16	0000739.71-			0005244-20-	13
		24 25.72	0001786.16	0000715.66-			0005196-09-	15
		24 26.72	0001713.99	0000739.71-			0005292-31-	12
		24 27.72	0001738.05	0000667-54-			0005220-14-	12
		08 30.65	0001665.88	0000715.66-			0007192.73-	12
		08 31.65	0001689.93	0000691.60-			0007192-73-	12
		08 32.65	0001665.88	0000667.54-			0007192-73-	12
11.0		08 33-65	0001713.99	0000619.43-			0007192.73-	12
		08 34.65	0001689.93	0000667.54-			0007192-73-	12
		16 27.09	0001738.05	0000643.49-			0008948.82-	12
		16 28.09	0001713.99	0000691-60-			0008924.77-	12
		16 29.09	0001713.99	0000691.60-			0008924.77-	12
1010	0080 15	16 30.09	0001738.05	0000667-54-			0008924.77~	12
		16 31.09	0001738.05	0000691.60-			0008876.65-	12
		37 17-85	0001617-77	0000547.26-			0009622-39-	12
		37 18-85	0001593.71	0000547-26-			0009598.33~	12
		37 19.85	0001617.77	0000571.32-			0009622.39-	12
		37 20.85	0001593.71				0009598+33=	12
		37 21-85 40 49-63	0001641.82 0001713.99	0000547.26~			0009596.33- 0010175.68-	12 12
		40 50.63		0000571.32-			0010175.68-	12
		40 51.63			0001689.93		0010151-62-	12
		40 52-63			0001665.88		0010127.57-	12
		40 53.63		0000595.38-			0010127.57~	12
		44 33.87	0001665.88	0000619.43-			0010560.57-	12
1010	2200 10		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4400017173	0002807603	22003 (000 th	A410 200 40 1	**

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ID 1029	REC PT	RATE 01	10/29/69 CONJUG/T	E STRUCTURE	FEST COND 1			
TEST	COND H	R/HN/SEC	P00828	P1800818	P1800828	L11210B	R01128	GP
1010	0100 1	6 44 34.87	0001713.99	0000595.38-	0001593.71	0000354-02-	0010560.57~	12
1010	0100 1	6 44 35-87	0001713.99	0000571.32-	0001641.82		0010560:57-	\$ 2
1010	0100 1	6 44 35.87	0001713.99	0000571.32	0001641-82	0000378.87-	0010550-57-	12
7010	0100 l	6 44 37.87	0001713.99	000057132-	0001593.71	0000330.76-	0010535.52-	12
1010	0021 1	6 52 40.66	0001786.16	0000667.54-	0001641.82	0000571.32-	0003079-16-	12
1010	0021 1	6 52 41.66	0001786.16	0000691.60-	0001689-93		3003079.16-	12
1010	0021 1	6 52 42.66	0001810.21	0000617.43-	0001689.93		COU3055.10-	12
1010	0021 1	6 52 43.66	00016* 21	0000667.54-			0003127.27-	īž
1010	0021 1	6 52 44.66	0001 .6.16	0000667.54-	0001665.88		00030064994	12

10 1029	REČ PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	R01128	R01138	R901118	R901:128	R90113B	GP
		47 18.26	0000012.02-		0000048-10-		0000024-05-	13
		58 53.77	0000902.10	0002549.94	0001010.34-		0002886.72	1.3
		58 54.77	0000878.04	0002598.05	0000938.17~		0002982.94	13
		58 55.77	0000902.10	0002573.99	0000938-17-		0002910.78	.13
		58 56.77	0000902.10	0002598.05	0000938-17-		0002910.78	13
		58 57-77	0000853.99	0002573.99	0000986-29-		0002910.78	13
		06 59,24	0001455.39	0004498.47	0001082 651-		0005123.93	13
		07 00.24	0001455.39	0004546.58	0001082-51-		0005123.93	13
		07 01.24		0004546.58	0001034-40-		0005123.93	13
		07 02.24	0001455.39	3004570.64	0001082.51-		0005099.87	13
		07 03.24	0001479.44	0004522.53	0001082.51-		0005196.10	13
		08 54-04	0002201-12	0006639,46	0001226+85-		0007553.58	13
		08 55.04	0002201.12	0006687.57	0001226+85~		0007553.58	13
		08 56.04	0002261.12	0006687-57	0001226.85-		0007577.64	13
		08 57.04 08 58.04		0006615.40	0001178.73-		0007553.58	13 13
		19 52.40	0002153.91 0001503.50	0006687.57	0001178273-		0007553.58 0007794.14	13
		19 53.40		0007313.02	0002044.75-		0007842.26	13
		19 54.40		0007313.02	0002020.69-		0007794.14	13
		19 55.40		0007337.08	0002020.83-		0007/33-14	13
		19 56.40		0007337.08	0002020+69-		0007842.26	13
		24 23.72	0000974.27	0008154.98	0002910.77-		0008347.43	13
		24 24.72		0008179.04	0002934-82-		0003371.49	13
		24 25.72		0008203.10	0002934-82-		0008371.49	13
		24 26.72		0008203-10	0002910.77-		0008335.54	13
		24 27.72		0008154.98	0002958.88-		0008323.38	13
		08 30 65		0008828.55	0003848.95-		0008636-10	13
		08 31.65		0008804.50	0003824.89~		0008563.94	.13
		-08 32.65		0008864.50	0003848.95-		0008491.77	13
1010	0060 15	08 33.65	6000372.87	0008852-61	0003848.95~	0002742.38	0008587.99	13
1010	0060 15	08. 34.65	0000348-81	0008755.38	0003873.01-		0008515.82	13
1010	0080 15	16 27.09	0000108.24~	0009646.46	0004739⊋92−	0002910.78	0009117.22	13
1010	0080 15	16 28.09	0000060-13-	0009646,46	0004690.91-	0002910.78	6009117.22	1,3
1010	0080 15	16-29-09	0000069.13-	0004670.51	0004666.85-	0002886.72	0009117.22	13
		16 30.09		0009646.46	0004666.85-	0002910.78	0009141-28	1.3
1010	0080 15	16 31.09	0000036.07~	0009670.51	0004714.97~	C002910.78	0009165.34	13
		37 17-85			0004618.74-		0009093.17	13
		37 18.85			0004666.85-		0009117.22	13
		37 19-85			0004638.74-		0009093.17	1/3
		37 20.85			0004618-74-		0009093.17	13
		37 21.85				0002790.50	0009045-06	13
		40 49.63			0004885.36-		0009646.46	13
		40-50-63			3004863-36-		0009686.46	13
		40 51.63				0002982.94	0009670.51	43
		·40 52.63				0002958.89	0009646.45	13
		40 53,63			0004907-41-		0009670.51	13
1010	OTON TO	. 44 33.87	0000396.934	onintan-ta	0005147.97-	CORSAIN*10	0009502-12	13

1023	REC 91 400	RATE Öl	TOISAICA CONJUGATI	STRUCTURE	TEST COND 1			
Test	COND HAS	/HM/SEC	201128	R01_38	R901118	R901128	8901138	GP
1010	0100-16	64 34.87	0000396.91-	0010199.74	0005172.03-	0002934483	0009550.23	13
		44 35.87	6006396.91-	0010247.86	0005172.03-	0002934.83	0009502-12	13
1016	0100 15	34 36.87	0000396.91-	0010223.80	0005147-97-	0002934.83	0009550-23	.13
		44 37.87	0000420.97-	0010247.86	0005123.92~	0002910.78	0009574-29	13
		52 40.66	0002249.26	0007264.91	0001467.41-	0002670.22	0008058.76	13
		92 41.56		0007288.97	0001443-35-	0002646.16	0008058.76	13
		52 42.66	0002273.29	0007313-02	0001443.35-	0002646.16	0008106-87	13
		52 43.66	0002297-35	0007284.97	0001443.35~	0002646.16	0008058.76	13
		52 64.66	0002273429	0007313-02			0008058-76	13

10 1029	REC PT 400	RATE 01	10/29/69 COMJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/HNYSEC	P177121B	P1771228	P0131A	P0132A	601318 [,]	GP
0000	0000 08	47 18.26	0000012.02-	-00000024.05-	70.00000	0000018.0%	-00-000000-00-	14
1000	0000 12	58 53.77	0006579.31~	0001106.58	0002014,88-	0002555.94-	01.5400000	14
1000	000U 12	58 54.77	0006579.31-	0001059.46	0002014.60-	0002507.83~	0000042.10	14
1000	0000 12	58 55.77	0006579.31-	0001106.58	0001990-62-	0002483.77-	0000042.10	14
1000	0000 12	58 56.77	0006579.31-	0001082.52	0002038.74-	0002555094~	0000042.10	14
1000	0000 12	58 57.77	-66.508800	0001058-46	0002062.79~	0002531.88-	00000042-10	14
1005	0000 13	06 59.24	0013603.66-	0002718.33	0003770.77-	0004480-42-	0002014.69	14
1005	0000 13	07 00.24	0013627.71-	0002742.38	0003746.71-	0004456-36-	0002014.69	14
1005	0000 13	07 01.24	0013579.60-	0002742.38	0003794.82-	0006408-25-	0002014-69	14
1005	0000 13	07 02-24	001 3579 460-	0002742.38	0003770.77~	NOU9432.31-	6001990.63	14
1005	0000 13	07 03.24	0013603.66-	0002742.38		0004408.25-		14
1010	0000 13	08 54.04	0020243.11-	0004979.59	0005599.02-	0006501.12-	0004131.62	14
1010.	0000 13	08 55.04	0020219-06-	0005003.65	0005599.02-	0006428.96~	0004003.51	14
1010	0000 13	08 56.04	0020195-00-	0004979.59		0006453.01-		14
1010	2000 13	08 57.04	0020195.00-	0005003.65		0006453.01-		14
1010	0000 15	00 58.04	0020219-05-	0005003.65		0006453.01-		14
		19 52.40	0020026.61-	0004883:37		0006645.46-		14
		19 53.40	0020050-67-			0006645-46-		14
		19 54,40	0020002-55-			0006573.29-		14
1010	0020 13	19 55.40	0020002-55-	0004931.48		0006621.40-		14
1010	0020-13	19 56.40	0020002-55-	0004955.54		0006573-29-		14
		24 23.72	0020531-79-	0005051-76		0005659-16-		14
		24 24.72	0020483.67-			0005611-05-		14
		24 25.72	0020459.62-	0005147.98		0005611.05-		14
1010	0040 13	24 26.72	0020483-67-			0005635.11-		14
		24 27.72	0020459.62-			0005587-00-		14
		08 30.65	0020002-55-			0005202-10-		14
		08 31.65	0019930.39-			0005226-16-		14
		08 32.65	0019954-44-			-0005226-16-		14
		08 33,65	0020002-55-			0005178-04-		14
		:08 34-65	0020002.55-			0005226-16-		14
		16 27.09	0020459-62-			0005538.88-		14
1010	0080 15	16 28.09	0020411.51-	0005196.10		0005466.72-		14
		16 29.09	0020435.56-			0005490-77-		14
		16 30-09	0020459+62-			0005418-60-		14
1010	0080 15	16 31.09	0020459.62-	0005196.10		0005466.72-		14
		37 17.65	0019232.76-	0004931.48		0005178.04-		14
		37 18.85	0019208.71-	0004955-54		0005105,88-		14
		37 19.85	0019280.87-		0000126.29		0031230.69-	14
		37 20.85	0019232.76-		0000078.18		0031230.69-	14
		37 21.85	0019232.76-		0000102+24		0031230.69-	14
		40 49.63	0020315.78-			0005611.05-		14
		40 50.63	0020315-28-		0000511.19		0033395.73-	14
		40 51-63	0020291-23-		0000535.25		0033395.73-	14
		40 52.63	0020267.17-		0000535.25		0033395.73~	14
		40 53.63	0020291.23-		0000559.30		0033395.73-	14
		44 33.87	0019810-11-		0001184.76		0035478.88-	14

1D 1029	REC PT 400	RATE	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			<u>.</u>
TEST	COND HR	/KN/SEC	P1771218	P177122B	POP1.A	P0132A	P01318	- GR
1010	0100 16	44 34.87	0019834-26-	0005220.15	18.8021000	0005370.49-	0035608.28-	24.
1010	0100 16	44 35.87	0019786-05-	0005292.32	0001184.76	0005370.49-	V0356V8.88-	14
1010	0100 16	44 36.87	~75.5886100	0005244.21	0001232.87	0005370-49-	0025608.08-	14
1010	0100 16	44 37.67	0019858.22-	0005768.26	0001232.67	0005394.55-	0035657.20-	14
1010	0021 16	52 40.66	~55.2886400	0005099.87	0002712.30-	-35-1484000	0012250.51-	14
1010	0021 16	52 41.66	-17:42668400	0005123-93	0002688.25~	0004865.32-	0012250.51-	14
1010	0021 16	52 42.66	-68.6179100	0005123.93	0002640-14-	0G04793.15-	0012250.51-	14
1010	0021 16	52 43.66	0019489#83~	0005123.93	0002688-25-	0904793.19-	0012250.51-	14
1010	0021 16	52 44.66	0019617.66-	0005172-04	0002640.14-	1004817-20-	-56.8625100	14

0000 0000 08 47 18.25	
1000 0000 12 58 53.77	GP
1000 0000 12 58 54.77	15
1000 0000 12 58 55.77	15
1000 0000 12 58 56.77	15
1000 0000 12 58 57.77	15
1005 0000 13 06 59.24	15
1005 0000 13 07 00.24 0006320.70- 0004450.36 0002688.25- 0000000.00 0003458.04- 1005 0000 13 07 01.24 0006344.76- 0004426.30 0002712.30- 0000024.05- 0003458.04- 1005 0000 13 07 02.24 0006344.76- 0004474.42 0002760.42- 0000024.05- 0003409.93-	15
1005 0000 13 07 01.24 0006344.76- 0004426.30 0002712.30- 0000024.05- 0003458.04- 1005 0000 13 07 02.24 0006344.76- 0004474.42 0002760.42- 0000024.05- 0003409.93-	15
1005 0000 13 07 02.24 0006344.76- 0004474.42 0002760.42- 0000024.05- 0003409.93-	15
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1005 0000 13 07 03.24 0006320.70- 0004498.47 0002688.25- 0000000.00 0003482.10-	15
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ID 1029	REC #		ATE 01	10/29/69 CONJUGAT	ESTRUCTURE	TEST COND 1			
TEST	COND	HR/M	N/SEC	P0132B	P1801318	P1801328	P01418	P0142B	GP
1010	0100	16 4	4 34.87	0008894.70=	0004209-80	0003361.82-	0000457-05-	0005719.30-	15
1010	0100	16 4	4 35.87	0008918.75-	0004257-91	0003361.82-	0000433.00~	0005743.36-	15
1010	0100	16 4	4 36.87	0008990.92-	0004281.97	0003385.87-	G000457-05-	0005719.30-	15
1010	0100	16 4	4 37.8	0008966.86-	0004257.91	0003337.76-	0000457.05~	0005791.47-	15
1010	0021	16 5	2 40-60	0011516.80-	0006880.02	0003987.27-	0000336-77-	3005406.58-	15
1010	0021	16 5	2 41.66	0011588.97-	0006855-96	60040113-	0000288.66-	0005382.52-	15
1010	0021	16 5	2 42.66	0011516.80-	0006680.02	0003963.22-	0000336-77-	0005382.52-	15
			2 43.60		0006904-07	0003987-27-	0000312.72-	0005382.52-	15
	,		2 44.66		0006855,96	0003963.22-	0000336-77-	0005430.63-	15

ID 1029	REC PT 400	RATE 01	10/29/69 CCNJUGATI	E STRUCTURE	TEST COND 1			
TEST	COND HP	/MN/SEC	P1801418	P185142B	P01518	P0152B	P1801518	GP
		47 18.26	0000012.03	0000030.0.	0000030.07	005-	-0000006-00-	16
1000	0000 12	58 53.77	0000637.48	0001762.09-	0000631.47	DOS-	0001293.01	16
1000	0000 12	58 54.77	0000565.32	0001713.98-	0000655.53	005-	0001220.84	16
		2 58 55.77	0000589.37	0001762.09-	0000655.53	DOS-	0001244.90	16
		2 58 56.77	0000613.43	0001713.98-	0000655.53	00\$~	0001268.95	16
		2 58 57.77	0000565.32	0001689.92-	0000655.53	DOS-	0001244.90	16
		06 59.24	0000974.27	0003109.23-	0001184.76	DOS-	0001846.30	16
		07 00.24	0000998.32	0003061.12-	C001208.81	DOS-	0001918.47	16
		07 01.24	0001070-49	0003109.23-	0001208.81	DOS-	0001918.47	16
		07 02.24	0000998.32	0003037.06-	0001184:76		0001870.35	16
		07 03.24	0001070.49	0003085.17-	0001232.87	005-	0001942.52	16
		08 54.04	0001479.44	0004600.70-		DOS-	0002664.20	16
		08 55.04	0001431.33	0004648.81~			0002712.31	16
		3 08 56.04	0001455.39	0004600.70-			0002712.31	16
		08 57.04	0001431.33	0004648.81-	7		0002712.31	16
		08 58.04	000 1431 • 33	0004600.70-			0002712.31	16
		19 52.40	0001407.28	0004600.70-			0002640.15	16
		19 53.40	0001455.39	0004600.70-			Q002664•20 _°	16
		19 54.40	0001431.33	0004552.59-			0002640.15	16
		19 55.40	0001431.33	0004600.70-			0002640.15	16
		19 56.40	0001407.28	0004552.59-			0002640.15	16
		24 23.72	0001431.33	0004769.09-			0002688.26	16
		24 24.72	0001455.39	0004726 - 98-			0002688.26	16
		24 25.72	0001479.44	0004672.87-			0002664.20	16
		24 26.72	0001455.39	0004720.98-			0002688.26	16
		24 27.72	0001455.39	0004648.81-			0002688.26	16
		08 30.65	0001455439	0004576.64-			0002664.20	16
		08 31.65	0001431.33	0004600.70-			0002688.26	16
		08 32.65	0001527-56	0004624.76-			0002664.20	16
		08 33.65	0001455.39	0004624-76-			0002640.15	16
		08 34.65	0001431.33	0004624.76-			0002616.09	16
		16 27.09	0001455,439	0004720.98-			0002712.31	16
		16 28:09	0001431-33	0004745.04-			0002712.31	16
		16 29.09	0001503.50	0004720.98-			0002712.31	16
		16 30.09	0001503.50	0004720.98-			0002712.31	16
		16 31.09	0001455.39	0004745.04-	()		0002760.43	16
		37 17.65	0001455.39	0004263.92-	7,		0002664.20	16
		37 18.85	0001503.50	0004239.86-			0002760.43	16
		37 19.85	0001431.33	0004095.52-			0002688.26	16
		37 20.85 37 21.85	0001479.44	0004239.86~			0002664.20	16
		40 49.63	0001479.44	0004263.92-			0002640-15	16
		40 50.63	0001575-67	0004552.59-			0002880.71	16
		40 51.63		0004552.59-			0002832-59	18
		40 52.63	0001575.67 0001503.50	0004576:64-			0002832-59	16
		40 53.63	0001551-61	0004576.64-			0002784.48	16
		44 33.87	0001431-33	0004384.20-			0002808454	16
TATA	0 TOO TO	, TT JJ.01	0001431.33	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0006030+ (/	DO2~	0002736.37	16

ELEMENT STRESS

10 1029	REC PT	RATE 01	10/29/69 CONJUGATI	E STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P180141B	P180142B	P01518	P01528	P1801518	GP
3010	0100 16	44 34.87	0091527.56	0004408.25-	0002050.77	00\$-	0002760.43	16
1010	0100 16	44 35.87	0001503.50	CO04408.25-	0002074.83	,	2002760.43	16
1010	0100 16	44 36.87	0001479.44	0004432.31-	0002098.89	DOS-	0002808.54	16
1010	0100 16	44 37.87	0001551.61	0004408.25-	0002074.83	DOS-	0002784-48	16
1010	0021 16	52 40.65	0001551.61	0004287.97-	2001954.55	-200	0002736.37	16
1010	0021 16	52 41.66	000152756	0004408.25-	0002026.72	DOS-	0002832.59	16
1010	0021 16	52 42.66	0001551-61	0004384 - 20-	0001930.49		0002832.59	16
1010	0021 16	52 43.66	0001503.50	0004408.25-	0002002.66	pos-	0002808.54	15
1010	0021 16	52 44.66	0001503.50	0004360.14-	0001978.61	DOS-	0002832-59	16

10 REC PT RATE 1029 400 01	10/29/69 CCNJ 1G4 E	TF UCTURE	TEST CONU 1			
TEST COND HR/MN/SEC	P1801524	F 01 618	P01625	P180161E	P 1801628	GP
0000,0000 08 47 18-26	0000036.07-	1000.006.01	(0000084.19-	0000042.10	0000038-67-	17
1000 0000 12 58 53.77	0002225,17-	3000463.08	0001527.55-		0002369.51-	17
1000 0000 12 58 54.77	0002177.06-	3000535.25	0001527.55-	0001172.73	0002369.51-	17
1000 0000 12-58 55.77	10002225.17-	0000487-13	0001551-60-	0001148.67	0002393.56-	17
1000 0000 12 58 56.77	0002201.11-	0000511.19	0001503.49-	0001124-62	0002345.45-	17
1000 0000 12 58 57.77	0002177:06-	0000511.19	0001479.43-	0001100.56	0002369.51-	17
1005 0000 13 06 59:24	0004486.43~	3000703.64	0003115.24-	0001627.79	0004390.21-	17
1005 0000 13 07 00.24	0004486.43~	0000751.75	0003115.24-	0001557.63	0004462.38-	17
1005 0000 13 07 01,24		0000896.09	D003043.07~	0001653.85	0004414.27-	17
1005 0000 13 07 02.24			0003067.13-		0004390.21-	17
- 1005 0000 13 07; 03•24					0004414.27-	17
1010 0000 13 08 54.04			0004991-61-		0006531.19~	17
1010 0000 13 08 55.04			0004919-44-		0006579.31-	17
1010 0000 13 08 56.04			0004823.22-		0006579.31-	17
1010 0000 13 08 57.04			0004871.33-		0006603.36-	17
1010 0000 13 08 58-04			0004671.33-		0006483.08-	17
1010 0020 13 19 52.40			0004847.27-		0006434.97-	17
1010 0020 13 19 53-40			0004847:27-		0006434 - 97-	17
1010 0020 13 19 54.40			0004775.13-		0006459.03-	17
1010 0020 13 19 55.40			0004823.22~		2006286.86-	17
1010 0020 13 19 56.40			0004847.27-		000.794.86-	1.7 17
1010-0040 13 24 23.72 1010 0040 13 24 24.72			0004895.39-		0006555.25-	17
1010 0040 13 24 25.72			0004895.39-		0006507.14-	17
1010 0040 13 24 25.72			0004875.39-		0006507.14-	17
1010 0040 13 24 27.72			0004895.39-		0006555.25-	î7
1010 0060 15 08 30.65			0004702.94-		0006362.80-	1.7
1010 0060 15 08 31.69			0004775-11-		0006386.86-	17
1010 0060 15 08 32.65			0004751.05~		0006410.91-	17
1010 0060 15 08 33.65			0004751.05~		0006386.86-	17
1010 0060 15 08 34.65			0004726-99-		0006362-80-	17
1010 0080 15 16 27.09			0004919.44-		0006483.08-	17
1010 0080 15 16 28.09	0006843.92-	0001232.87	0004847.27-	0002183.08	0006531:19-	17
*010 0080 15 16 29.09	0006771.75-	0001232.87	0004847.27-		0006459.03-	17
1010 0080 15 16 30.09	-10.618900	0001136.65	0004847.27-	0002183.08	0006459.03-	17
1010 0080 15 16 31.09	0006795.81~	0001208.81	0004871-33-	0002207.14	0006483.08-	17
1010 0090 16 37 17.85			0004414.27-		0006098.19-	1,7
1010 0090 16 37 18.85			0004390.21-		0006098.19~	17
1310 0090 16 37 19.85			0004414-27-		0006098.19-	17
1010 0090 16 37 20.85			0004390.21-		0006074.13-	17
1010 0090 16 37 21.85			0054293.99~		0006122-24-	17
1010 0095 16 40 49.63			0004702.94-		0006507-14-	17
1010 0095 16 40 50.63			0004775-11-		0006459-03-	17
1010 0095 16 40 51.63			0004799.16-		0006507-14-	17
1010 0095 16 40 52.63			G004751.05-		0006459.03-	17
1010 0095 16 40 53.63			0 74775-11-		000 <u>6</u> 459.03~ 0006314.69~	17 17
1010 0100 16 44 33.87	₹ 006362.80 -	0001194*-\0	0004606.71-	000100000	0000314.03~	11

`∢ID 1029	REC -P1			10/29/69 CDNJUGAT	STRUCTURE	TEST COND 1			
TEST	COND	HR/NN/	/SEÇ	91801528	P01618	P0162B	P180151B	P1801628	GP
1010	0100	16 44	34.87	0006410.91-	0001232-87	0004654.83~	0002038.75	0006266.58~	17
1010	0100	16 44	35.87	9006410.91-	0001256.93	0004606.71-	0002110.91	0006242-52-	17
	0100			0006362.80~	0001208.81	Q004582.66-	0002062.80	.0006314.69-	17
1010	0100	16 44	37.87	0006410.91-	0001256.93	0004654.83-	0002086.86	0006290.63-	17
	0021				0001256.93	0004751-05-	0002062.80	0006507.14-	17
	0021				0001208.81	0004726.99-	0002038.75	0006434.97-	17
	0021				0001280.98	0004726.99-	0002110.91	0006434.97-	17
	0021				0001256.93	0004702-94-	0002086.86	0006434.97-	17
	0021			0006483.08-	0001280.98	C004702.94-	0002086.86	0006366.85-	17

ID 1029	REC PT 400	RATE 01	10/29/69 CUNJUGATE	STRUCTURE	FEST COND 1			
TEST	COND HR	/HN/S EC	P0202B	P1802018	P180202B	P0211A	P0212A	GP
		47 18.26	0000030.06-	0000024.05-	0000102.24	0000048.11	0000006.00-	19
1000	0000 12	58 53.77	0000667.55	0000000.00	0000138.31-	0001154-69	0000860.00	19
1000	0000 IS	58 54.77	000064350	0000024.06	0000090:20-	0.001154-69	0000908-11	19
		58. 55.77	0000715.67	0000000.00	7000114.26-		0000908.11	19
		58 56.77	0000715.67	0000024.06	0000138.31-		0000908-13	19
1000	0000 12	58 57.77	0000691-61	0000000.00	0000114.26-	0001154.69	0000884.06	19
		06 59.24	0001028.39		0000306.70-		0002134.97	19
		07 00.24	0,000980.28		0000330.76~		0002279.31	19
		07 01-24	0001028.39		0000282.65-		0002221.19	19
		07 02.24	0001004.34		0000282.65-		0002231.19	19
		07 03.24	0001052-45		0000330.76-		0002255.25	19
		08 54-04	0001437-35		0000402.93-		0003770.78	19
		08 55.04	0001341-12		0000402.93-		0003818.89	19
		08 56.04	0001389.23		0000402.93-		0003746.72	-19
		08 57-04	0001413.29		0000378.87-		0003770.78	19
		OR 58.04	0001341-12		0000402.93-		0003794.83	19
		19 52.40	0001413-29		0000426.98-		0003722.67	19
		19 53.40	0001365-18		0000379-87-		0003818.89	19
		19 54.40 19 55.40	0001365.18		0000354.82-		0003770.78 0003770.78	15
		19 56.40	0001389.23 0001389.23		0000402.93-		0003746.72	19
		24 23.72	0001385.46		0000378487-		0003146-12	19
		24 24.72			0000378.87~		0003891.06	19
		24 25.72	0001437.35		0000330.76-		0003867.00	19
		24 26.72			0000354.82~		0003915.11	19
		24 27.72			0000378.87-		0003915.11	19
		08 30-65			0000330.76-		0003618.89	19
		08 31.65			-07.60±0300		0003818.89	19
		08 32.65	0001509.51		0000330.76-		0003818.89	19
		08 33.65			0000258.59-		0003794.83	19
		08 34.65			0000282-65-		0003818.89	19
1010	0080 15	16 27.09	0001509.51	0000529.22-	0000330.76-	0000938.18	0003987.28	19
1010	0080 15	16 28.09	0001581.68	0000481-11-	·0000282.65-	0000890.07	0003867.00	19
1010	0080 15	16 29.09			0000258-59-		0003963.23	19
		16 30.09			0000330.76-		0003939.17	19
		16 31.09			0000258-59-		0003939.17	19
		37 17-85			0000282-65-		0003578.33	19
		37 18.85			0000210.48-		0003554-27	19
		37 19.85			0000258.59-		0003530.22	19
		37 20.83			0000210-48-		0003554.27	19
		37 21.85			0000258.59-		0003578.33	19
		40 49.63			0000234.54-		0003867.00	19
		40 50.63			0000234.54-		0003842.95	19
		40 51.63			0000234.54-		0003867.00	19
		40 52.63			0000234.54~		0003842.95	19 19
		40 53.63			0000282.65-		0003867.00	19
1010	-0100 10	44 33.87	0001557-63	AAAAAAA *37~	0000234.54-	00001139103	0003794.83	17

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1029		ŘAYE Öl	10/29/69 CONJUGATE	STRUCTURE	TEST COND I			
TEST	COND H	R/MN/SEC	PO 20 28	P1802018	P180202B	P0211A	P0212A	GP
1010	Ó100 1	6 44 34.87	0001581.68	0000553-28-	0000258-59-	0000817.90	0003722.67	19
1010	0100 1	6 44 35.87	0001533:-57	0000553.28-	0000186-42-	0000841.96	0003770.78	19
1010	0100 1	6 44 36.87	Q0015C9.51	0000601.39-	0000234.54~	0000817.90	0003770.78	19
		6 44 37.87	0001605.74	0000553.28-	0000234-54-	0000841-96	0003818.89	19
1010	0021 1	6 52 40.66	0001413.29	0000625-45-	0000378.87-	0000986.30	0003602.39	19
1010	0021 1	6 52 41.66	0001437.35	0000625.45-	0000378.87-	0000986.30	0003602.39	19
		52 42.66	0001437.35	0000649.50-	0000378.87-	0000986.30	0003578.33	1.9
		6 52 43.66		0000673.56-	0000306.70-	0001058.46	0003578.33	19
		6 52 44.66		0000625.45-	6000354.82-	0001010.35	0003602-39	19

ID 1029	REC PT 400	PATE 01	10/29/69 C	ONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR.	/HN/SEC	P	0221A	P0222A	P0231A	A26204	NZA	GP
0000	0000 08	47 18.26	0000	024.06	0000030.07	0000060.13-	0000006.01	0000000.00	,20
1000	0000 12	58 53.77	0002	165.04 (001305.04	0000613.43	0002459.73	0000168.39	2i)
1000	0000 12	58 54.77	0002	165.04 (0001377.21	0000637.48	0002411.61	0000216.50	£3;
1000	0000 12	58 55.77	0002	116.93	001353.15	0000637.48	0002435.67	0000120.28	20
1000	0000 12	58 56.77	0002	140.98 (0001280.98	0000613.43	0002459.73	0000168.39	20
1000	0000 12	58 57.77	0002	189.10 (0001377.21	0000589.37	0002435.67	0000144.34	20
1005	0000 13	06 59.24	0003	800 - 85 (0001810.21	0000372-87	0004263.93	0000096.22	20
1005	0000 13	07 : 15 24	0003	848.96 (001810.21	0000348.81	0004312.04	0000168.39	20
		07 0' 24		848.96 (001858.33	0000396.92	0004287.98	0000168.39	20
		07 💆 . 4/	0003	800.85 (001834-27	0000396.92	0004263.93	0000168.39	20
		07 03.24	0003	848.96 (001786.16	0,000,348.81	0004287.98	0000168.39	20
		08 54.04			0002147.00	0000108-24-		0000168.39	20
		08 55.04			0002147.00	0000084-19-		0000168.39	20
		108 56 . 04			0002195.11	0000036.07-		0000192.45	20
		08 57.04			0002147-00	0000084.19-		0000144.34	20
		08 58.04			002122-94	0000012-02-		0000192.45	20
		19 52.40			JC2122-94	0000012.02-		0000144.34	20
		19 53.40			0021147.00	0000060-13-		0000120.28	20
		19 54.40			0002147.00	0000012.03	0006308.69	0000144-34	20
		19 55.40			002122-94	0000060.13-		0000168.39	20
		19 56.40			002098.89	0000012.03	0003308.69	0000120.28	20
		24 23.72			0002074.83	0000036.07~		0000240.56	20'
		24 24.72			002098-89	0000036.07-		0000168.39	20
		24 25.72			002147.00	0000012.02-		0000168.39	20
		24 26.72			002074-83	0000036.07-		0000120-28	20
		24 27.72			002171-05	0000012.02-		0000168.39	20
		08 30.65			002098.89	0000012.03	0006356.80	0000192-45	20
		08 31.65			0002074.83	0000060-14	0006356.80	0000192-45	20
		08 32.65			0002074-83	0000084.20	0006332.74	0000168.39	20
		08 33.65			0002098.89	0000060.14	0006428.97	0000144.34	20
		08 34.65 16 27.09			0002122.94 0002098.89	0000084.20	0006356.80	0000168-39	20 20
		16 28.09			002074.83	0000012-03	0006621.41	0000192.45 0000192.45	,20 ,20
		16 29.09			002074.03	0000036.08	0006621.41	0000192.45	20
		16 30.09		·	002122-94	0000084.20	0006597.36	0000144-34	20
		16 31.09			0002074.83	0000004.28	0006597.36	0000240.56	20
		37 17.85			002098-89	0000030.14	0006140.29	0000168.29	20
		37 18.85			002050.77	0000108.25	0006212.46	0000216.50	20
	0090 16				002074.83	0600132.31	0006212.46	0000210.56	20
		37 20.85			002074.83	0000132.31	0006188.41	00 10192.45	20
		37 21.85			002098-89	0000108.25	0006188.41	01 0 28.39	20
		40 49.63			002122.94	0000060.14	0006597.36	000. 216.50	20
		40 50.63			0002171.05	0000084.20	0006549.25	000(192.45	20
		40 51.63			002147.00	0000084.20	0006573.30	0000144-34	20
		40 52.63			002122.94	0000060-14	0006597.36	0000192-45	20
		40 53.63			002122.94	0000060.14	0006549.25	0000192.45	20
		44 33.87			002050.77	0000084-20	0006404.91	2000144.34	20
									-

1D 1029	REC PT 400	RATE 01	10/29/69 CONJUGAT	E STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P0221A	P0222A	P0231A	P0232A	N/A	GP
1010	0100 16	44 34.87	0005677.22	0002050.77	0000156.34	0006428.97	0000192.45	20
1010	0100 16	44 35.87	0005749.38	0002122-94	0000108.25	0006428.97	0000216.50	20
1010	0100 16	44 36.87	0005725-33	0002122.94	0000084.20	0006404.91	0000192.45	20
1010	0100 16	44 37.87	0005773 •44	0002122.96	0000084.20	0006477-08	0000192.45	20
1010	0021 16	32 40.66	0005460.71	0002171.05	0000012.03	0006188.41	0000168.39	20
1010	0021 16	52 41.66	0005484.77	0002147.00	0000012.03	0006188-41	0000192-45	20
1010	0021 16	52 42.66	0005532.88	0002171-05	0000036-07-	0006212.46	0000216.50	20
		52 43.66		0002098-89			0000216.50	20
1010	0021 16	52 44.66	0005532-88	0002147-00			0000168-38	20

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ID 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	P0171A	P0172A	P1801724	P180171A	P1801818	GF
		47 18.26			0000078.17-			21
		58 53•77			0000872.02-			21
1000	0000 12	58 54.77			0000896.08-			21
1000	0000 12	`58 55 . 77	0001118.59-	0001665.87-	0000896.08-	0002183207-	0002032.73	21
1000	0000 12	58 56.77	0001070.48-	0001665.87-	0000896-08-	0002110.90-	86.8002000	21
1000	0000 12	58 57.77	0001118.59-	0001665.87-	0000872.02-	0002183.07-	0001984.62	21
1005	0000 13	06 59.24	0001623.77-	0003421.96-	0002026.71-	0003217.48-	0003259.59	21
1005	0000 17	07 00.24	0001623.77-	0003157.34-	0002050.76-	0003193.42-	0003283.64	21
1005	0000 13	07 01.24	0001647-83-	0003181-40-	0002122.93	0003265.59-	0003355.81	21
1005	0000 13	07 02-24	0001599.71-	0003205.45-	0002074.82-	0003289.65-	0003259.59	21
1005	0000 13	07 03-24			0002074-82-			21
		08 54.04			0003446-01-			21
		08 55.04			0003494.12-			21
		08 56.04			0003446,01-			21
		08 57.04			0003470-07-			21
		08 58.04			0003494-12-			21
		19 52.40			0003397.90-			21
		19 53.40			0003446.01-			21
		19 54.40			0003421.96-			21
		19 55.40			0003446.01-			21
		19 56.40			- 0003470.07-			21
		24 23.72			U003470.07-			21
		24 24.72			0003518.18-			21
		24 25.72			- 0003518.18-			21
		24 26.72			0003518.18-			21
		24 27.72	0008960.85-	0005009.65-	0003518.18-	0005406.58-	0005617.08	21
		08 30-65	0012088.13-	0004841.26-	0003421.96-	0005743.36-	0005833.58	21
		08 31.62			0003373.84-			21
		08 32.65			0003349.79-			21
1010	0060 15	08 33.65	0012112-19-	0004793-15-	- 0003397.90-	0005719.30-	0005929.80	21
1010	0060 15	08 34-65	0012064.07-	0004817-20-	- 0003470.07-	0005719.30-	0005857.64	21
1910	0080 15	16 27.09	0015407.86~	0004985.60-	- 0003518.18-	-0006392-87-	0006314.70	21
1010	0080 15	16 28.99	0015383.80~	0004937.48-	- 0003446.01-	0006416.93-	0006290-64	21
1010	0080 15	16 29.09	0015431.91-	0004865.32-	- 0003494.12-	0006344.76-	0006314.70	21
1010	0080 15	16 30.09	0015407.86-	0004961.54-	- 0005494 -12 ~	0006368.82-	0006314.70	21
1010	0080 15	16 31-09	0015407-86-	0004937.48-	- 0003518-18-	0006392-87-	0006290.64	21
1010	0090 16	37 17-85	0017500-73-	0004624.76-	- 0003157.34~	0006537.21-	0006699.60	21
1010	0090 16	37 18.85	0017476.67-	0004672-87-	- 0003157.34-	0006561.26-	0006747.71	21
1010	0090 16	37: 19.85	0017500-73-	0004576.64-	- 0003181.40-	0006537-21-	0006747.71	21
1010	0090 16	37 20.85	0017500+73-	0004648.81-	0003181.40-	0006513.15-	0006771.76	Zı
1010	0090 16	37 21.85	0017500.73-	0004624.76-	- 0003157.34-	0006585.32-	0006747.74	21
		40 49.63	0018511-08-	0004985-60-	- 0603446.01~	000675371-	0007108.55	21
1010	0095 16	40 50-63			- 0003446.01-			21
		40 51.63			- 0003446.01-			21
		40 52.63			- 0003518.18-			21
		40 53-63			- 0003494.12-			21
1010	0100 16	, 44 33.81	0019112.48-	0004793.15-	- 0003349 .79-	0006970-22-	0007108.55	21

10 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/HN/SEC	P0171A	P0172A	P180172A	P180171A	P1801818	GР
1010	0100 16	44 34.87	0019160.59-	0004793.15-	0003397.90-	0006994.27-	0007084.49	21
		44. 35-87	0019136.54-	0004817-20-	0003349.79-	0006970-32-	0007132.60	21
1010	0100 16	44 36-87	0019136.54~	0004745.04-	0003421.96-	0006994.27-	0007132.60	21
1010	0100 16	44 37-87	0019136.54-	0004817-20-	0003397.90-	0007018.33-	0007108.55	21
		52 40.66	0008672-18-	0005081-82-	0003397.90-	0004853.29-	0006194.42	21
		52 41.66			0003446.01-			21
		52 42-66	0008624-07-	0004985-60-	0003421-96-	0004925-46-	0006170.36	21
		52 43.66			0003470:07-			21
		52 44.66	0008648-12-	0004937-48-	0003470-07-	0004901-40-	0006170.36	Žl

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ID 1029	REC PT RATE 400 01	10/29/69 CONJUGATE S	TRUCTURE T	F-37 COND 1			
TEST	COND HR/MN/SEC	P1301828	P180101'A	P180192A	P180211A	P180212A	-GP
0000	0000 08 47 18- 5	0000012.03 00	00120.27-	00.0000a0	0000024.05-	0000048.11	22
1000	0000 12 58 53-77	-0001166.71- 00					22
	0000 12 58 54.77	0001166.71- GO					22
1000	0000 12 58 55.77	0001166.71- 00	01323.07-	06. 1457.05~	0003223.49-	0002068.82	22
1000	0000 12 58 56.77	0001190.76- 00	01371.18-	00C0481.11-	0003223.49~	0002092.87	22
1000	0000 12 58 57.77	0001142.65- 00	01371-18-	0000481.11-	0003247.55-	J002044.76	22
1005	0900 13 06 59.24	6002297.34~ 00	02477.76-	0001274.96-	0005629.09-	0003512.18	22
1005	0000 13 07 00.23	0002369.51- 00					22
1005	0000 13 07 01.24						22
1005	0000 13 07 02.24						25
	0000 13 07 03.24						22
,	0000 13 08 54.04						22
	0000 13 08 55 . 04						22
	0000 13 08 56.04						22
	0000 13 08 57.04						\$3
	0000 13 08 58.04						·22`
	0020 13 19 52.40						22
	0020 13 19 53.40						22
	0020 13 19 54.40						22
	0020 13 19 55.40						22
	0020 13 19 56.40						22
	0040 13 24 23.72						22 22
	0040 13 24 24.77						
	0040 13 24 25.7						22 22
	0040 13 24 26 77						22
	0040 13 24 27.7						22
	0060 15 08 30.69 0060 15 08 31.69						22
	0060 15 08 32.69						22
	0060 15 08 32.6						22
	0000 15 08 34.6						22
	0080 15 16 27.09						22
	0080 15 16 28.09						22
	0080 15 16 29.09						22
	0080 15 16 30.09						22
	0080 15 16 31.0						22
	0090 16 37 17.8						22
	0 0090 16 37 18-8						22
1610	0 0090 16 37 19.8						22
	0090 16 37 20.8		S. 143 a. 1.1-	0002116.92-	0007529.52-	0004739-03	22
	0090 16-37 21.8	0003427.91- 00	0211 - 3-	0002116.92-	0007529.52-	0004739.03	22
1010	0095 16 40 49.6		0337 61-	9002285.31-	0007914.41-	0005003,,65	22
1010	0095 16 40 50.6	°C ~62.8666000	03319.72-	0002285.31-	0007890.36-	9004955.54	22
1010	0095 16 40 51.6						22
	0095 16 40 52.6						22
	3 0095 16 40 53.6		03343.77-	0002213.14-	0007866.30-	0005093.65	22
1010	0100 16 44 33.8	0003524.19- 00	103223.49-	0002189-09-	0007866.30-	0004907.42	22

IĆ. 1029	ŘĚC P 400			10/29/69 CONJUGATI	STRUCTURE 1	EEST COND 1			
TEST	COHD	HR/MN	/SEC	P180182B	P1803914	5/2,00 5%ZA	9100511%	23804123	GP
1010	0100	16 44	34,87	0003596.36-	0003247-55-	0003225-14-	00-1770-05-	0004907.42	22
			35.97				6207770.Ca-		22
1010	0100	16 46	36.67				2067818-19-		22
1010	0100	16 64	37.37	0003572.31-	0003223-49-	0002189-09-	0007744-02-	0004979.59	22
			40.66	0003548-25-	0003271-61-	0602283-31-	000/577.63-	บันธ์ ๆ 73 4.03	
			41.66				0007601.69-		22
			42.66	0003620-42-	0003271.61-	0002261.25-	333 77 - 53-	0004763,05	22 22
			43.66	0003620-42-	0003247.55-	0002309.37-	0001533723-	0004 155.69	22 22
			44.66	0003572.31-	0003295.66-	0002237.20-	0007552.5%	0004E14-20	22

°D 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	E STRUCTURE	TEST COND 1			
TÉST	COND HR	/MN/SEC	P180221A	P180222A	P180231A	P180232A	R169243A	GP
		47 18.26	0000042.10	0000018.04	0000000.00	0000000.00	0000018.03-	23
		58 53.77	0002026.71-	0001557.63	0005725.32-	0001491.47	0001545.60	23
		58 54.77	0002050.76-	0001581.68	0005773.43-	0001467.42	0001545.60	23
		58 55.77	0002074.82-	0001557.63	0005821.54-	00/1443.36	0001545.60	23
		58 56 _e 77	0002026.7:1-		0005797.49-	0.01539.58	0001545.60	23
		58 57.77	0002050.76~	0001533.57	0005749.37-	J001491-47	0001569.65	23
		06 59.24	0003542.24-		0011643.09~	0002910.78	0003085.18	23
		07 00.24	0003614.40-		0011643.09-		0003061.13	23
		07 01.24	0003566.29-		0011643.09		0003037.07	23
		07 02.24	0003590.35-		0011643.09-	0002838.61	0003037.07	23
		07 03.24	0003566.29-		0011643.09-		0003037.07	23
		08 54.04	0004937.48-		0018017.93-		0004769.10	23
		08 55-04	0004961.54-		0018090-10-		0004793.16	23
		08 56.04	0004869-37-		0017993.88-	0004570.64	0004817.21	23
	44	08 57.04	0004913.43-		0018017.93-		0004793.16	23
		08 58.04	0024889-27-		0017969.82-		0004769.10	23
		19 52.40	0J04889.37~		0017825.49-		0004720.99	23
		19 53.40	0004961.54-		0017801.43-		0004745.05	23
1010	0020 13	19 54.40	0004841.26-		0017801-43-		0004745.05	23
			0004889.37-		0017801.43-		0004672.88	23
		19 56.40	0004889.37-		0017753.32-		0004745.05	23
		24 23.72 24 24.72	0005081.82-		0018258-49-		0004937.49	23
		24 25.72	0004985.60-		0018210-38-		0004937.49	23
		24 26.72	0004937.48-		0018234.44-		0004865.33	23
		24 27.72	0005057.76- 0004961.54-		0018258:49- 0018162-27-		0004937.49	23
		08 30.55	0004985.60-		0017825.49-		0004937.49	23 23
		08 31.65	0004985.60-		0017825.49-		0004769.10 0004745.05	23
		08 32.65	0004985.60-		0017801.43-	· - · - · - · - · - · - · - · - ·	0004145.05	23
		08 33.65	0004913.43-		0017777.37-		0004745.05	23
		08 34.65	0004985.60-		0017825.49-		0004769.10	23
		16 27.09	0005105.88-		0018306.61-		0004937.49	23
		16 28.09	00050576-		0018282.55-		0004913.44	23
		16 29.09	0005057.76-	1941	0018306.61-		0004937.49	23
1010	0080 35	16 30.09	0005057.76-		0018282.55-		0004937.49	23
		16 31.09	0005033-71-		0018282.55-		0004937.49	23
1:10	0090 16	37 17.85	0004817.20-	0004348-12	0017#03.81-		0004552.60	23
1040	0090: 16	37 18-85	0004817.20-	0004396.23	0017/03-81-		0004576.65	23
1010	9090 16	37 19.85	0004913.43-	0004372.18	0017103.81-	0004498-47	0004576.65	23
		37 20-85	0004769.09-	0004396.23	0017055.69-	0004474.42	0004576.65	23
1010	0090 16	37 41.85	0004793.15-	0004420-29	0017055-69-	0004378.19	0004552.60	23
1010	0095 16	40 49.63	0004985.60-	0004684.91	0018258-49-	0004787-14	0004889.38	,23
		40 50.63	0005057,76-	0004708.56	0018282.55-	0004811.20	0004937.49	23
		40 51.63	0005081.82-		0018258.49-		0004937.49	23
		40 52.63			0018258.49-		0004913.44	23
		40 53.63	0005033.71-		0018234.44-		0004937,49	23
1010	0100 16	44 33.87	0004937.48-	0004564.63	0017729.26-	9004618.75	0004745.05	23

10. 1029	8EC PT 400	rate 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEET	COND HR	/MM/SEC	P180221A	P180222A	P180231A	P180232A	R169243A	GP
1010	0100 16	44 34.87	0004937.48-	0004564.63	0017729.26-	0004618.75	0004745.05	23
1010	3100 16	44 35.87	0004961.54-	0004564.63	0017777.37~	0004566.86	2004793.16	23
10:0	0109 16	44 36.87	0004985.60-	0004540.57	0017801.43-	0004642.81	0004745.05	23
1610	0100 16	44 38.87	0004985.60-	0004564.63	0017849.54-	0004690,92	0004793-16	23
1010	2021 16	52 40.66	0004865.32-	0004275.95	0017753.32-	0004450.36	0004648482	23
2010	0021 16	52 61.66	0004913.43-	0004348-12	0017777.37-	0004426.30	0004600-71	23
2010	0021 16	52 62.66	0004937.48-	0004348.12	0017705-21-		0004672.88	23
1010	0021 16	52 43.66	0004841.26-	0004348.12	0017729.26-	0004450.36	0004648-82	23
1010	0021 16	52 44.66	0004841.26-	0004372.18	0017729.26-		0004648.82	23

10 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	iest como 1			
TEST	CUNG HR	/MN/SEC	K169242A	R169241A	L15626A	L16228A	L162288	GP
		47 18.26	0000042.09				0000038.03-	24
		58 53.77	0001008,53	0000962.24	0000986.30	,0000481-11-		24
		58 54.77		0000986.30	0000962.24	0000577.33-		24
		58 55.77	0001160:70	0000986.30	0000986.30	0000505.17-		24
		58 56.77	0001112.59	0000986.30	0000986.30	0000529-22-		24
		58 57.77	0001088.53	0000986.30	0000986.30	0000529.22-		24
		06 59.24	0001810.21	0001419.30	0001467.42	0008082.81-		24
		97 00.24		0001467442	0001443.36	0008106.86-		24
		07 01-24	0001858.33	0001457.42	0001443.36	0008082.81-		24
		07 02.24	0001858.33	0001419.30	0001443.36	0008130,92-		24
		07 03.24	0001834-27	0001467-42	0001467.42	0008082.81-		24
		08 54-04	0002676.23	0001900-42	0001924.48	0016430-24-		24
		08 55.04	0002652.17	0001900.42	0001948-54	0016406.18-		24
		08 56.04	0002652.17	0001876.37	0001924,48	0016382.13-		24
		08 57-04	0002676.23	0001852-31	0001924.48	0016382-13-		24
		08 58.04	0002604.06	0001900-42	0001900.42	0016309.95-		24.
		19 52.40	0002628,12	0001780.14	0001852.31 0001876.37	0016334,01-		24
		19 53.40 19 54.40	0002604.06 0002604.06	0001876.37 0001852.31	0001878.37	0016309.96-		24 24
		19 55.40						
		19 56.40	0002628.12 0002604.06	0001876.37	0001876.37 0001876.37	0016285.90-		24 24
		24 23.72	0002700-29	0001876.37	0001948-54	0017151.92-		24.
		24 24,72	0002652.17	0001852.31	0001948.54	0017127.86-		24
		24 25.72	0002676.23	0001876.37	0001900.42	0017127.86-		24
		24 26.72	0002676.25	0001852.31	0001900342	0017151-92-		24
		24 27.72	0002652.17	0001852.31	0001924.40	0017127.86-		24
		08 30.65	0002459.73	0001780.14	0001878.26	0016502.41~		24
		08 31.65	0002507.84	0001756.09	0001828.26	0016478-35-		24
		08 32.35	0002483,78	0001780.14	0001828.26	0016478.35-		24
		08 33.65	0002483.78	0001804-20	0001804.20	0016478.35-		24
		08 34.65	0002495.67	0001780-14	0001828.26	0016478.35-		24
		16 27.09	0002555.95	0001780-14	0001852.31	0017224-09-		24
		16 28.09	0002555	0001732.03	0001780.14	0017175.97-		24
		16 29.09	0002555.95	0001864-20	0001828.26	0017224-09-		24
		16 30.09	0002507-84	0001780.14	0001780.14	0017175.97-		24
		16 31.09	0002531.89	0001756.09	0001828.26	0017151.92-		24
		37 17.85	0002267-28	0001683.92	0001756.09	0015492-05-		24
		37 18.85	0002267 28	0001659.86	00017.2.03	0015588-28-		26
		37 19.85	0002291.33	0001683.92	0001707.98	0015540-17-		24
		37 20.85	0002315.39	0001707.98	0001756.09	0015516-11-		24
		37 21.85	0002291.33	000:659,86	0001707.98	0015516.11-		24
1010	0095 16	40 49-63	0002435.67	0001780.14	0001852.31	0017127.86-	0030292.52	24
		40 50.63	0002387.56	0001732.03	0001780,14	0017175-97-		24
1010	0095 16	40 51.63	0002435.67	0001884.20	0061780.14	0017175.97-	0030292.52	25
1010	0095 16	40 52.63	0002459.73	0001780.14	0001780.14	0017151.92-	0030244.41	24
1010	0095 16	40 53.63	0002411.61	0001756.09	0001304.20	0017127,86-	0030292.52	24
1010	0100 16	44 33.87	0002387.56	0001707.98	0001732.03	0016454.29-	0028945.38	24

19 1029	REC R 400			10/29/69 CONJUGAT	STRUCTURE :	TEST COND 1			
TEST	COND	HR/MN.	/SEC	R169242A	-9169241A	L15626A	L16'28A	L16228B	GP
1010	0100	16 44	34.87	0002339.45	0001707.98	9001707.98	0016526.46-	0023849-16	24
1010	0100	16 44	35.87	0002363.50	6001756-09	0001756,09	0016574.57~		24
1010	0100	16 44	36.87	0002363.50	0001756.09	0001780-14	0016598.63-	0029089-72	24
1010	0100	16 44	37.87	0002339.45	0001732.03	0001780.14	0016646.74-	0029185.94	24
1010	0021	16 52	40.66	0002459,73	0001876.37	0001876.37	0015347-72-	0028175.59	24
1010	0021	16 52	41.66	0002459.73	0001052.31	0001900-42	0015347.72~		24
1010	0021	16 52	42.66	0002459.73	0001876.37	0001852.31	0015251-49-		24
1010	0021	16 52	43.66	0002411.61	0001876.37	0001852.31	0015347.72-		24
1010	0021	16 52	44.66	0002459.73	0001852.31	0001876.37	0015347.72-		24

ID REC PT RATE 1029 400 01	10/29/69 CONJUGAT	E STRUCTURE	TEST COND L			
TEST COND HR/MN/SEC	ΡI	P2	N/A	A/A	N/A	GP
0000 0000 08 47 18.2	0000000.00	0000000.00	0.0000000 +00	0600000.00	00,0000000	25
1000 0000 12 58 53.7	7 0000000.00	0000000.00	00000000.00	00.00000.00	0000000.00	25
1000 0000 12 58 54-7	7 0000000.00	0000000.00	0000000.00	00000009.00	00000000000	25
1000 0000 12 58 55-7	7 0000000+00	0000000.00	00.00000.00	0000000.00	0000000.00	25
1000 0000 12 58 56.7		0000000.00	0000000-00	0000000.00	00.00000.00	25
1000 0000 12 58 57.7		0000000.00	0000000.00	0000000.00	0000000.00	25
1005 0000 13 06 59.2		0000000.00	00000000-00	0020000.69	0000000.00	25
1005 0000 13 07 00.2		0000000-00	20000000	0000000.00	0000000.00	25
1005 0000 13 07 01.2		0000000-00	0000000.00	000000.00	0000000.00	25
1005 0000 13 07 02.2		0000000-00	0000000000	0000000.00	0000000.00	25
1005 0000 13 07 03.2		0000000.00	0000000.00	00.00000.00	0000000.00	25
1010 0000 13 08 54.0		0000000.00	0000000000	0000000,00	00000000000	25
1010 0000 13 08 55.0		0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0000 13 08 56.0		0000000.80	0000000-00	0000000,00	0000000	25
1010 0000 13 08 57.0		0000000-00	0006650.00	0000000.00	0000000+00	25
1010 0000 13 08 58-0		00000000+00	0000000.00	0000000.00	00.0000000	.25. 25
1010 0020 13 19 52-4		0000000.00	00.0000000	00000000	0000000000	25 25
1010 0020 13 19 53.4		0000000-00	0000000.00	00000000.00	0000000.00	25 25
1010 0020 13 19 54.4 1010 0020 13 19 55.4		0000000+00	0000000.00	0000000.00	00.0000000	25
1010 0020 13 19 56.4		0000000.00	0000000.00	000000000000000000000000000000000000000	0000000	25
1010 0040 13 24 23.7		→0000000-00	0000000.00	00.00000.00	0000000	25
1010 0040 13 24 24.7		0000000-00	0000000.00	0000000000	0000000.00	25
1010 G040 13 24 25.7		-0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0040 13 24 26.7		0000000-00	0000000.00	0000000	0000000.00	25
1010 0040 13 24 27.7		0000000000	0000000.20	0000000.00	0000000.00	25
1010 0060 15 08 30.6		0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0060 15 08 31.6		0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0060 15 08 32.6		0000000.00	0000000.00	0000000.00	00.00000.00	25
1010 0060 15 08 33-6		0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0060 15 08 34.6	5 0000000.00	0000000.00	0000000.00	0000000.00	000000 .00	25
1019 0080 15 16 27-0	9 000000-00	0000000-00	0000000.00	0000000-00	0200000.00	25
1010 0030 15 16 28.0	9 0000000.00	0000000.00	00.00000.00	0000000.00	00.00000.00	25
1010 0080 15 16 29.0		0000000-00	00.000000	n00000go.00	0000000.00	25
1010 0080 15 16 30.0		0/)00000+00	0000000.00	00000000.00	0000000.00	25
1010 0080 15 16 31-0		0000000*00	00000000000	0000000.00	000000000	25
1016 0090 16 37 17.8	•	0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0090 16 37 18.8		0000000000	0000000-00	0000000.00	0000000	25
1010 0090 16 37 19-8		0000000.00	0000000-00	0000000.00	0000000.00	25
1010 0090 16 37 20.8		0000000.00	0000000.00	000,0000.00	0000000.00	25
1010 0090 16 37 21-8		0000000.00	0000000.00	0000000.00	0000000.00	25
1010 0095 16 40 49-6		00000000.00	0000000.00	0000000	0000000.00	25 25
1010 0095 16 40 50-6		0000000.00	0000000.00	000000000	0000000.00	2.5
1010 0095 16 40 52.6		0000000.00	0000000.00	00000007-00	0000000.00	2.5 25
1010 0095 16 40 53.6		0000000.00	0000000.00	0000000400	0000000.00	25
1010 0100 16 44 33.8		0000000.00	000.000.00	0000000.00	0000000.00	25
7070 ATOO \$0 44 DOG	. 000000000		200 300 800		220000000	

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ID 1029	REC PT RATE	10/29/69 CONJUGAT	E STRÜCTURE	TEST COND 1			
TEST	COND HR/MH/SEC	PL	92	M/A	N/A	N/A	GP
1 đTo	0100 16 44 34-87	0000000.00	0000000-00	00c0000.00	0000000.00	0000000.00	25
1010	0100 16 44 35.87	0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
1010	0100 16 44 36.87	0000000.00	0000000-00	0000000.00	0000000.00	0000000.00	25
1010	0100 16 45 37-87	0000000,00	90.000000	0002000-00	0000000.00	0000000.00	25
1010	0021 16 52 40.66	0000000-00	00000000.00	0000000.00	0000000.00.	2000000.00	25
1010	0021 16 52 41.66	000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
	QÔ21 16 52 42.66	0000000-00	00000000	0000000.00	0000000.00	0000000.00	25
	0021 16 52 43.66	0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
	0021 16 52 44-66	00.00000.00	0000000-00	0000000.00	0000000.00	00.000000.00	25

10 1029	REC PT 400	RATE 01	10/29/69 CÓNJUGATE	STRUCTURE	FEST COND 1			
ŤEST	COND HR	/HN/SEG	R 1692418	R169242B	R169243B	R349241A	R349242A	GP
8000	0000 08	47 19.26	0000042.10	0000012-02-	0000012-02-	0000060-13-	0000000-00	31
1000	-0000 12	58 53.71	0001437.35	0002537.91	0002850.64	0001094.55	0001034-41	31
0001	0000 12	58 54.77	0001 -85 - 46	0002658-19	0002874 -69	0001142.66	0001058.46	31
1000	0000 12	58 55.77	0001437.35	0002561.96	0002898.75	0001118.60	0001058.46	31
1000	0000 12	58 56.77	0001533.57	0002634-13	0002874.69	0001142.66	0001082.52	31
1000	0000 12	58 57.77	0001461.40	0002586-02	0002850.64	0001094.55	0001082.52	31
1005	0000 13	06 59.24	0002351.47	0003957.21	0004582-67	0001503.50	0001876 437	31
1005	0000 13	07 00.24	0002327.42	0003933.16	0004582.67	0001455.39	0001852.31	31
1005	0000 13	07 01.24	0002351.47	0003957.21	0004582.67	0001455.39	0001876.37	31
1005	0000 13	07 02.24	0002327.42	0003957.21	0004630.78	0001479-44	0001852.31	31
1005	0000 13	07 03.24	0002375.53	0003981.27	0004558.61	9001503.50	0001900.42	31
1010	0000 13	08 54.04	. 0003433.99	0005376.52	0006603.37	0001840,28	0002790-50	31
1010	0000 13	08 55.04	0003433.99	0005376.52	0006579.32	0001816.23	0002790-50	31
1010	0000 13	08 56.04	0003482-11	0005424-63	0006603-37	0001816.23	0002838.61	31
1010	0000 13	08 57.04	0003433.99	0005376.52	0006603 437	0001864.34	0002886.72	31
1010	0000 13	08 58.04	0003409.94	0005424.63	0006579.32	0001840.28	0002838.61	31
		19 52.40		0005328.40	0006483+09	0001744.06	0002742-38	31
1010	0020 13	19 53.40	0003361.83	0005328-40	0006531.20	0001720.00	0002742.38	31
1010	0020 13	19'54.40	0003361.83	0005376.52	0006507.15	0001840.28	0002766.44	31
1010	0020 13	19 55.40	0003361-83	Ω005352≈46	0006434+98	0001744.05	0002742-38	31
1010	0020 13	19 56.40	0003385.88	0005328.40	0006507-15	6391792.17	0002766+44	31
1010	0040 13	24 23.72	0003433.99	0005448.68	0006723.65	0061720.00	0002790.50	31
1010	0040 13	24 24,72	0003433.99	0005424.63	0006651.49	0001720.00	0002614-55	31
1010	0040 13	24 25.72	0003433.99	0005472.74	0006699.60	0001744-06	0002766.44	31
-1010	0040 13	24 26.72	0003409+94	0005448.68	0006747.71	0001695.95	0002742.38	31
		24 27.72		0005448.68	0006747.71	0001720.00	0002814.55	31
1010	0060 15	08 30.65	0003313.71	0005304.35	0006603.37	0001695.95	0002670.22	31
		08 31.65		0005328.40	0006627.43	0001720.00	0002670.22	31
		08 32.65		0005352.46	0006579.32	0001720.00	0002694+27	31
		08 33.65		0005328.40	0006603.37	0001095.95	0902718.33	31
		08 34.65		0005304.35	0006555.26	0001595.95	0002694.27	31
		16 27.09		0005424.63	0006795.82	0001671.89	0002694-27	31
		16 28.09		0005448.68	0006747-71	9001647.84	0002742.38	31.
		16 29.09		0005472.74	0006795.82	0001671.89	0002790.50	31
		16 30.09		0005448-68	0006747.71	0001623.78	0002742-38	31
		16 31.09		0005448.68	0006747.71	0001671.89	0002718.33	31
		37 17.85		0005160.01	0006386-97	0001623.78	0002549.94	31
		37 18.85		0005160.01	0006386.87	0001599.72	0002573-99	31
		37 19.85		0005208-12	0006386-87	0001599.72	2002622-10	31
		37 20.85		0005135.96	0006386.87	0001599.72	0002549-94	31
		37 21.85		0005135.96	0006386.87	0001623.78	0002573-99	31
		40 49.63		0005448.68	3006795.82	0001671-89	0002718-33	31
		40 50.63		C005424.63	0005771.76	0001671.89	0002670-22	31
		40 51.63		6005424.63	0006795.82	0001671.89	0002718.33	31
		40 52.63		0005424-63	0006747.71	0001695.95	0002766-44	31
		40 53.63		0005448+68	0006795.82	0001720.00	0002694-27	31
1010	0100 19	44 33.87	0003313.71	0005304.35	0006531.20	0001599.72	0002670.22	31

10 1029	REC 9		RAT 01	_	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			-
TEST	COND	HR/	'NN/	SEC	R169241B	R1692428	R1692438	R349241A	R349242A	GP
1010	0100	16	44	34.87	0003289.66	0005280-29	0006555.26	0001551.61	0002694.27	31
1010	010u	16	44	35.87	0003289.66	0005352.46	0006579.32	0001647.34	0002646-16	31
1010	0100	16	44	36.87	0003265.69	0095352.46	0006579.32	0001671.89	0002670-22	31
1010	0100	16	44	37.87	0003313.71	0005376.52	76.6034000	0001647.84	0002670-22	31
1010	0021	16	52	40.66	0003337.77	0005304-35	0006386.87	0001864.34	0002742-38	31
1010	0021	16	52	41.66	0003409.94	0005256-24	0006386.87	0001864.34	0002742-38	31
1010	0021	16	52	42.66	0003313.71	0005256.24	0006386+87	0001888.40	0002766-44	31
1010	0021	16	52	43.66	0003313.71	0005280-29	0006386.87	0001864.34	0002742-38	31
1010	1500	16	52	44.66	6003337.77	0005280•29	0006410.92	0001864.34	0002766-44	31

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10 1029	BEC PT 400	RATE 01	10/29/69 CONJUGATE	STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	R349243A	R3402¥18	K349242B	R3492438	L1562581	GP
0000	0000 08	47 18.26	0000018.03-	0000036.07-	0000030.06-	0000078.17-	0000012.02-	32
1000	0000 12	58 53.77	0001521.54	0000805.88	0001750.07	000244770	0001407.27-	32
1000	0000 12	58 54.77	0001521.+54	0000853.99	0001726.02	0002471.75	0001383.21-	32
1000	0000 12	58 55.77	0001593.7.1	0000829.93	0001726.02	0002351.47	0001383-21-	32
1000	0000 12	58 56.77	0001545.60	0000829.93	0001822.24	0002495.81	0001455.38-	32
1000	0009 12	58 57-77	0001545.60	0000853.99	0001750.07	0002447,79	10001407-27-	32 ⁻
1005	0000 1.3	06 59.24	0002868.68	0000926.16	0002207.14	0004275.95	10002417-62-	32
1005	0000 13	07 00.24	0002892.73	0000950-21	0002183.08	0004203.79	0002393.56-	32
1005	0000 13	07 01.24	0002820-57	0000926.16	0002231.19	0004227.84	(1002369.51-	32
1005	0000 13	07 02-24	0002892.73	0000998.32	0002183.08	0004251.90	0002369.51-	32
1005	0000 13	07 03.24	0002868.68	0000974-27	0002207.14	0004203.79	0002345.45-	32
1010	0000 13	08 54.04	0004432.32	0001118.60	0002616.09	0006272.60	0003379.86-	32
1010	0000 13	08 55-04	0004432.32	0001190.77	0002616.09	0006272.60	0003427.97-	32
1010	0000 13	08 56.04	0004432.32	0001166.72	0002712.31	0006320.71	0003403 <i>c</i> 91~	32
1010	0000 13	08 57.04	0004432.32	0001142.66	0002688.26	0006272.60	0003403.91-	32
1010	0000 13	08 58-04	0004456-37	0001166.72	0002640.15	0006248.55	0003379.86-	32
1010	0020 13	19 52.40	0004360-15	0001094.55	0002640.15	0006272.60	0003403.91-	32
1910	0020 13	19 53.40	0004408.26	0001070.49	0002664.20	0006224.49	0003403.91-	32
1010	0020 13	19 54.40	0004408-26	0001046444	0002640.15	0006224.49	0003355.80~	32
1010	0020 13	19 55.40	0004384.21	0001118.60	0002688.26	0006248.55	0003379.86-	32
1010	0020 13	19 56.40	0004432.32	0001070.49	0002640.15	0006248.55	0003403.91-	32
1010	0040 13	24 23.72	0004600.71	0000998.32	0002616.09	0006489.11	0003493.91-	32
1010	0040 13	24 24.72	0004528.54	0000998.32	0002649.15	0006513.16	0003452.03-	32
1010	0040 13	24 25.72	0004528.54	0001046.44	0002640.15	0006440.99	0003403.91-	32
1010	0040 13	24 26.72	0004576.65	0001022.38	0002640.15	0006416.94	0003452403-	32
		24 27.72		0001046.44	0002616.09	0006465.05	0003427.97-	32
1010	0060 15	08 30.65	0004384.21	0000950.21	000264P+15	0006344.77	0003403.91-	32
1010	0060 15	08 31.65	0004360.15	0000902.10	0002736-37	0006296.66	0003403.91-	32
		08 32.65		0000902.10	0002664.20	0006296.66	0003379.86-	32
		08 33.65		0000998+32	0002760.43	0006344.77	0003355.80-	32
		08 34465		0000950-21	0002664.20	0006344.77	0003403-91-	32
		16 27.09		0000926.16	0002760.43	0006465.05	0003476.08-	32
		16 28-09		0000302.10	0002688.36	0006561.27	0003500.14-	32
		16 29.09		0000902.10	0002688.26	0006537.22	0003476-08-	.12
		16 30.09		0000878-04	0002712.31	0006489-11	0003452.03-	35
		16 31.09	_	0000926-16	0002664.20	0006561.27	0003500-14-	32
		37 17.85		0000829-93	0002616.09	0006176.38	0003283.63~	32
		37 18.85		0000853-99	0002616.09	0006128.27	0003259.58~	32
		37 19:85		0000853-99	0002567.98	0006224.49	0003307.69-	32
		37 20.85		0000853.99	0002592.03	0006176.38	0003259.58-	32
		37 21.85		0000878-04	0002616.09	0006176.38	C003235.52-	32.
		40 49.63		0000878.04	0002736.37	0004585.33	0003524.19-	32
		40 50.63		0000853-99	0002688.26	0006585.33	0003427.974	32
		40' 51.63		0000853-99	0002736-37	0006537-22	0003476-08-	32
		40 52.63		0000853.99	0002688.26	.0006585.33	0003476-08-	32
		40 53.63		0000853.99	0002712.31	0006585.33	0003476.08-	32
1010	0100 16	6 44 33.87	7 0004456.37	0000781-82	0002664-20	0006465.05	0003427-97-	32

ID 1029	REC P 400		RATE 01		10/29/69 CONJ	UGATE	STRUCTURE	TEST COND 1		-	
TEST	COND	HR/F	IN/SE	EC	R349	243A	R3492418	R3492428	R349243B	L1562581	GP
1010	0100	18 4	44 34	.87	0004496	.37	0000829.93	0002640-15	0006392.88	0003355.80-	32
	0.200				0004456	.37	0000829.93	0002712.31	0006416.94	0003355.80-	32
1010	0100	16	44 36	5.87	0004432	.32	0000829.93	0002616.09	0006440.99	0003355.80-	32
1010	0100	16	44 3	7.87	0004456	.37	0000853.499	0002640-15	0006465.05	0003403.91-	32
1010	0021	16 5	52 40	3.66	0004287	-98	0001022.38	0002760.43	0006176.38	0003355.80-	32
1010	0021	16 5	52 41	1.66	0004287	-98 (0001046.44	0002760-43	0006224.49	0003331.75-	32
1010	0021	16 5	52 42	2.66	0004263	.93	0001022.38	0002760-43	0006200-43	0003403.91-	32
1010	0021	16	52 43	3.66	0004384	.21	0001046.44	0002808.54	0006200.43	0003379.86-	32
	G021				0004287	.98	0001046.44	0002808-54	0006248.55	0003355.80~	32

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10 1029	REC PT 400	RATE 01	10/29/69 CONJUGATE	E STRUCTURE	TEST COND 1			
TEST	COND HR	/MN/SEC	L1562582	L-33625B1	L3362582	L15626B	L33626A	GP
0000	80 0000	47 18.26	0000024.06	0000012.03	.0000030.06-	-60,000000	0000054.13	33
1000	0000 12	58 53.77	0000914-12-	0003091.19-	0002796.50-	0000787.83	0002339.45	33
1000	0000 12	58 54.77	0000938-17-	0003139.30-	0002796.50-	0000715.67	0002363.50	33
1000	0000 12	58 55.77		0003115.24-			0002339.45	33
1000	0000 12	58 56.77		0003115.24-			0002411-61	33
		58 57.37		0003091.19-			0002363.50	93
1005	0000 13	06 59.24	0001876.36-	0004197.76-	0003999.30-	0001100.56	0002772.45	33
1005	0000 13	07 00.24	0001876.36-	0004197.76-	0003975-24-	0001100-56	0002796.51	33
1005	0000 13	07 01.24	0001828.25-	0004342-10-	0003951-19-	0001148-67	0002772.45	33
1005	0000 13	07 02.24	0001876-36-	0004366.15-	0004047.41-	0001076.51	0002820.57	33
1005	0000 13	07 03.24	0001852.30~	0004366-15-	0003975.24-	0001124.62	0002844-62	33
1010	0000 13	08.54.04	0002718.32-	0005087.83-	0004769.09-	0001533.57	0003421.97	33
1010	0000 13	08 55.04	0002790.49-	0005087-83-	0004769-09-	0001509.51	0003421-97	33
1010	0000 13	08 56-04	0002790.49-	0005063.78-	0004720.98-	0001557.63	0003446.02	33
1010	0000 13	08: 57-04	0002814-54-	0005111.89-	0004769.09~	0001557.63	0003421.97	33
1010	0000 13	08 58.04	0002742.37-	0005087.63-	0004696.92-	0001533.57	0003470.08	33
1010	0020 13	19 52.40	0002742.37-	0005063.78-	0004720.98-	0001509.51	0003301.69	33
1010	0020 13	19 53.40	0002766-43-	0005135.95-	0004745.04~	0001461.40	0003277.63	33
		19 54.40	0002766.43-	0005087.83-	0004745.04-	0001485.46	0003277.63	33
1010	0020 13	19 55.40	0002790+49-	0005111.89-	0004769.09-	0001509.51	0003349.80	33
		19 56.40	0002742-37-	0005063.78-	0004745.04-	0001557.63	2003301.69	33
1010	0040 13	24 23.72		0005160.00-			0003301-69	33
		24 24.72	0002838.60~	0005135.95-	0004817.20-	0001485.46	0003277.63	33
		24 25.72	0002814-54-	0005135.95-	0004793-15-	0002509.51	2003253.57	33
		24 26.72	0002814.54-	(0005184.06~	0004817.20-	0001485.46	0003229.52	33
		24 27.72	0002814.54-	0005184.06-	0004769.09-	0001485.46	0003229.52	33
		08 30.65		0005160.00-			0002772.45	33
		08: 31.65		0005087.83-			0002920.57	33
		08 32.65		0005087.83-			0002772.45	33
		08 33.65		0005087.83-			0002820.57	33
		08 34.65		0005087.83-			0002820-57	33
		16 27.09		0005111.89-			0002820-57	33
		16 28.09		0005135.95-			0002820.57	33
		16 29.09		0005111.89-			0002772.45	33
		16 30.09		0005160.00-			0002772-45	33
		16 31-09		0005063.78-			0002772.45	33
		37 17.85		0004967.55-			0002604-06	33
		37 18.85		0004967-55-			0002580.01	33
		37 19.85		0004943.50-			0002580.01	33
		37 20-85 37 21-85		0004967.55-			0002550.01	33
				0004967.55-			0002628-12	33
		40 49.63		0005087.83-			0002724.34	33
		40 50.63		0005087.83-			0002724.34	33
		40 51.63 40 52.63		0005063.78~			0002748.40	33
		40 53.63		0005111.89- 0005087-83-			0002700.29	33
		44 33.87		0005087.83-			0002748-40	33
1010	0100 10	44 53401	0002022.009-	0000001.00	UUU4!47.04*	0001737.33	0002628.12	33

ELEMENT STRESS

GP

10 1029	REC PT R	ATE 01	10/29/69 CONJUGATE	STRUCTURE 1	rest cond 1			
TEST	COND HR/F	IN/SEC	L15625B2	L3362581	L33625B2	L15626B	L33626A	
1010 1010 1010 1010 1010 1010	0100 16 4 0100 16 4 0100 16 4 0100 16 5 0021 16 5 0021 16 5 0021 16 5 0021 16 5	35.87 36.87 4 36.87 4 37.87 52 40.66 52 41.56 72 42.66 72 43.66	0002573.98-	0005015.67- 0005087.83- 0005063.78- 0005015.67- 0005039:72- 0004943.50- 0004991.61-	0004745.04- 0004793.15- 0004720.98- 0004720.98- 0004720.98- 0004696.92-	0001413,29 0001365.18 0001389,23 0001461.40 0001485.46 0001509.51 0001485.46	0002676-23 0002676-23 0002676-23 0002628-12 0002820-57 0002844-62 0002776-51 0002772-45	

TEST COND HR/MN/SEC L336268 L1562781 L1562781 L3362782 L3362781 L3362782 GP 0000 0000 08 47 18.26 0000024.05- 0000018.04 0000024.09- 0000054.12-0000014.06 34 1000 0000 12 58 53.77 0000841.96 0000174.04- 0001174.36- 0001148.66- 34 1000 0000 12 58 54.77 0000841.96 0000150.34- 0001052.44- 0001149.36- 0001148.66- 34 1000 0000 12 58 56.77 0000841.96 0000198.45- 0001107.50- 0001149.36- 0001148.66- 34 1000 0000 12 58 56.77 0000866.02 0000198.45- 0001076.36- 0001149.48- 0001149.36- 3001148.66- 34 1000 0000 12 58 56.77 0000866.02 0000198.45- 0001076.30- 0001149.48- 0001149.48- 3001148.66- 34 1005 0000 13 07 00.24 0001250.91 0000487.12- 0000198.49- 0001497.48- 0001127.67- 34 1005 0000 13 07 00.24 0001250.91 0000487.12- 000143.28- 0002171.04- 000182.23- 34 1005 0000 13 07 01.24 0001250.91 0000487.12- 000143.28- 0002247.10- 000186.29- 34 1005 0000 13 07 01.24 0001250.91 0000487.12- 0001431.39- 00022171.04- 000182.23- 36 1005 0000 13 07 03.24 0001250.91 0000487.12- 0001431.39- 00022171.04- 000182.23- 36 1005 0000 13 07 03.24 0001250.91 0000483.92 0000490.01- 0001461.39- 00022171.04- 000182.23- 36 1005 0000 13 08 54.04 0001863.92 0000511.18- 0001431.32-8 0002219.16- 000174.12- 34 1010 0000 13 08 56.04 0001756.09 0000757.68- 0001675.90- 000277.68- 000277.83- 0002778.39- 0002219.16- 0002279.13- 34 1010 0000 13 08 56.04 0001769.98 0000777.68- 0001575.90- 0002772.68- 0002279.18- 0002279.19- 30 34 1010 0000 13 08 55.04 0001769.98 0000777.68- 0001575.06- 0002277.83- 0002778.39- 0002279.30- 34 1010 0000 13 08 56.04 0001683.92 0000777.68- 0001575.06- 0002277.84- 0002277.93- 34 1010 0000 13 19 55.40 0001683.92 0000777.68- 000177.90- 0002772.84- 0002277.34- 0002277.34- 30 34 1010 0000 13 24 22-772 0001683.92 0000777.68- 000175.09- 0002772.84- 0002277.3-3- 34 1010 0000 13 24 22-772 0001683.92 0000777.68- 000175.09- 0002772.84- 0002277.3-3- 34 1010 0000 13 24 22-772 0001683.92 0000777.68- 000175.09- 0002772.84- 0002277.8-3- 3002277.3-3- 34 1010 0000 13 24 22-772	ID 1029	REC PT 400	RATE 01	10/29/69 CONJUGAT	E STRUCTURE	TEST COND 1			
1000 0000 12 58 53.77	TEST	COND HR	/MN/SEC	L 33626B	£1562781	L1562782	L3362781	L3362782	GP
1000 1000 12 58 54.77	0000	0000 08	47 18.26	0000024.05-	0000018.04	0000042.09-	0000054-12-	0000042.09-	34
1000 1000 12 58 55.77 0000814.96 0000150.34 0001076.30 0001174.42 0001124.61 34 1000 0000 12 58 57.77 0000866.02 0000139.34 0001064.33 0001449.36 0001172.72 34 1005 0000 13 05 90.24 0001299.02 0000439.01 000164.39 000121.04 0001172.72 34 1005 0000 13 07 02.24 0001299.02 0000439.01 000164.39 000221.16 000186.29 34 1005 0000 13 07 02.24 0001239.08 0000439.01 000161.328 0002219.16 0001793.18 34 1005 0000 13 07 03.24 0001230.88 0000439.01 000161.329 0002219.16 0001793.18 34 1005 0000 13 07 03.24 0001230.91 0000511.18 0001413.28 0002219.16 0001774.12 34 1010 0000 13 08 55.04 0001786.09 0000751.74 0001653.84 0002772.44 0002255.24 34 1010 0000 13 08 56.04 0001786.09 0000751.74 0001653.84 0002772.44 0002255.24 34 1010 0000 13 08 57.04 0001707.98 000073.63 0001653.38 0000772.44 0002255.24 34 1010 0000 13 08 57.04 000188.92 000073.63 0001653.38 0000772.44 0002255.24 34 1010 0000 13 08 57.04 000188.92 000073.63 0001653.38 0000772.44 0002279.30 34 1010 0000 13 05 53.40 0001707.98 0000773.65 0001653.38 0000772.44 0002279.30 34 1010 0020 13 19 54.40 0001683.92 000073.63 0001701.95 0002272.44 0002279.30 34 1010 0020 13 19 56.40 0001683.92 000073.63 0001701.95 0002772.44 0002279.30 34 1010 0040 13 24 24.72 0001683.92 000073.63 0001701.95 0002772.44 0002279.30 34 1010 0040 13 24 24.72 0001683.92 0000773.63 0001701.95 0002772.44 0002279.30 34 1010 0040 13 24 24.72 0001683.92 0000773.63 0001701.95 0002772.44 0002279.30 34 1010 0040 13 24 24.72 0001683.92 0000773.63 0001701.95 0002772.44 0002279.30 34 1010 0040 13 24 24.72 0001683.92 0000773.63 0001701.95 0002844.61 000233.35 34 1010 0040 13	1000	0000 12	58 53.77	0000841.96	0000174.40-	0001076,50-	0001497.48-	0001148.66-	34
1000 0000 12 58 56.77	100ú	0000 12	58 54-77	0000890+07	0000150.34-	0001052.44-	0001449.36-	0001100.55-	34
1000 0000 12	1000	0000 12	38 55.77	0000841.96	0000150.34-	0001076.50-	-0001473-42-	0001148.66-	34
1005 0000 13 07 00.24	1000	0000 12	58 56.77	0000817.90	0000150.34-	0001004.33-	0001497.48-	0001124-61-	34
1005 0000 13 07 00.24	1000	0000 12	58 57.77	0000866-02	0000198.45-	0001076.50-	0001449.36-	0001172.72-	34
1005 0000 13 07 01.24	1005	6000 13	06 59.24	0001299.02	0000439.01-	0001461.39-	0002171-04-	0001822-23-	34
1005 0000 13 07 02-24	1005	0000 13	07 00.24	0001250.91					34
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1010 0000 13 08 58.04									
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1010 0095 16 40 53.67									-
				0001635-81					

10 1029	REC P1	RATE 01	10/29/69 CONJUGAT	E STRUCTURE	TEST COND 1	•		
TEST	COND, E	IR/MN/SEC	L336268	L15627D1	L1562782	L53627B1	L 3362782	GP
1010	0100	0 44 34.97	0001683-92	0000727.68-	0001341.11-	0002964.39-	0002279.30-	34
		6 44 35.87	0001683-92	0000727.68-	0001268.94-	0002940-84-	3002327.41-	34
		16 44 35.87	0001683.92	0000775.80-	0001293.00-	0002940-84-	0002279.30-	34
		6 44 37.8T	0001659-86	0000727.68-	0001317-06-	0002892.72-	0002327.41-	34
		52 40.66	0001732-03	0000655.52-	0001196.78-	0002868-67-	0002183.07-	34
		6 52 42.36	0001760-14	0000703.63-	C001293.00-	0002844-61-	0002231-18-	34 34
		6 52 42.65	0001756-09	0000672-57-	0001220.83-	0002868.67-	0002183-07-	3 4
		6 52 43.66	0001756-09	0000679.57-	0001268-94-	0002844.61-	0002183-07-	34
		52 44.65	0001756-09	0000679.57-	0001196-78-	0002820.55-	0002159.02~	34

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APPENDIX III

Conjugate Structure Test Condition 2

Manual Company of the Company of the

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ID 1106	REC PT 400	RATE 01	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
	COND HR	/MN/SEC	N/A	LOOIA	LC01B	P0021A	P0022A	GP
		50 06-68			0000072-16-		0000120.27-	01
		19 12.32		0000048.16~ 0000048.11	0000024.05~		0000288.66-	01
		19 13.32 19 14.32		0000096.22	0000048.10-		0000072.17 0000024.06	01 01
		19 14.32		0000168-39		0000054-12-		oi
		19 10.32		0000192-45		0000222.51-		GĪ.
		02 50.73		0008900.72	0005965,89	0000390.90-		01
		02 51.73		0009309.67	0005989.94	0000342.79-		01
		02 52.73		0009309.67	0005989 . 94 0005965 . 89		0000144.33-	01 01
		02 54.73		0009454-01	0005989.94		0000192.44-	01
		07 26-70		0021794.74	0008924.78		0000240.55-	01
		07 27-70		0022035.30	0008900.72		0000192.44-	01
		07 28.70 07 29.70		0022107.46	0008852.61 0008876.66		0000168.38-	01 01
		07 30.70		0022033.41	0008900.72		0000168.38-	01
		11 14-22		0034327.91	0012196.39		0000096.21-	01
		11 15.22		0034279.80	0012100.17		0000096.21-	01
		11 16-22		0034279.80	0012124.22		0000168.38-	01 01
		11 17.22		0034231.69	0012124.22 0012100.17		0000144.33-	01
		15 59-89		0045345.56	0015997.24		0000192.44-	01
		16 00.89		0045634.23	0016069.41		0000120-27-	01
		16 01-89		0045778-57	0016045.35		0000120.27-	01
		16 02.89 16 03.89		0045634.23	0016069.41		0000168.38-	01 01
		16 04.89		0045634.23	0016045-35		0000096-21-	01
		52 06.49	0090000.00	0036011.83	0013086-46	0001689-92-	0000192.44-	01
		52 07-49		0035915.61	0013134-58		0000264.61-	01
		52 08.49 52 09.49		0035867.50	0013134.58 0013110.52		0000312.72- 0000240.55-	10 10
		52 10.49		0035963.72	0013110.52		0000240.55-	01
		31 46.68		0006591.34	0004233-86		0000168.38-	01
		31 47.68		0006759.74	0004426.30		0000168.38-	01
		31 48.68		0006807.85	0004498.47	0000042.10		01 01
		31 49.68 32 49.18		0006976.24	0004546.58 0006495.12		0000240.55- 0000264.61-	01
		32 50-18		0011859.61	0006615.40		0000248.55-	oì
2100	0010 15	32 51.18	0000000.00	0012052.06	0006615.4C		0000264-61-	01
		34 42.66		0023983.83	0009862.96		0000336.77-	01
		34 43.66 36 06.02		0024561.18	0009983.24 0013014.30		0000312.72- 0000216.49-	01 01
		36 07-02		0035867.50	0012918-07		0600192.44-	ŎĨ
		38 03-12		0056019.13	0016189.69		0000168.38-	01
		38 04-12		0046452-14	0016165-63		0000120.27	01
		40 32.15 40 33.15		0056363.21	0017822.14	0002748-39-	0000096.21-	01 01
2170	0000 12	40 33013	000000000	ELEM				
10 1106		RATE 01	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2		-	
TEST	COHD HA	J##JSEC	ē/A	rõo1Ÿ	LOOIB	P0021A	PQ022A	GP
		40 34-15		0056748-10	0019918-37		0000024.05-	01
	•	40 35.15 40 36.15		0056844.33	0019894.31 0019966.48	0002148.39~	0000024.05-	01 01
		45 59.61		0061366-86	0021770.68	0003013.00-		ŏi
		46 00.61		0061751.75	0021842-85	0003013.00-	0000072.17	01
		46 01.61		0061751-75	0021770.68	0003013-00-		01
		46 02.61 46 03.61		0061847.98 0061847.98	0021770.68 0021794.74	0003013-00- 0003085-17-		91 91
		29 34.86		GQ66562.95	0023671.10	0003253-56-		Ŏ1
		29 35.86		0086562.95	0023647.05	0003229-51-	0000120.28	01
		29 36-86		0066466-73	0023574.88	0003253-56-		01
		29 37.86 29 38.85		0066466.73	0023598 . 94 0023574 . 88	0003253.56-		01 01
		33 04.12		0072913-74	0026990.83	0003233.36-		01
		33 05.12		0071566.60	0,25739.92	0003494-12-		01
2165	0000 16	33 06-12	0000000-00	0071662-82	0025739.92	0003590-35-		01
		33 07-12		0071662-82	0025739.92	0003518-18-		01 01
		33 08.12 39 31.91		0071662.82	0/75739.92 0007144.63	0003542.24-	0000120.28	01
		39 32.91		0016742-98	0007024.35		0000601.39-	oi
2111	6000 18	39 33.91	0000000,00	0016742.98	0007024.35		0000673-56-	01
		39 34.91		0016863-26	0007024.35		0000649.50- 0000577.33-	01 01
2111	QUUQ 16	39 35.91	0000000-00	0016863.26	0007024.35	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0000911433	01

1D 1106	REC PT 400	RATE 01	11/06/69 CONJUGAT	E STRUCTURÉ	TEST COND 2			
TEST	COND H	IR/MN/SEC	P90021A	P90022A	P180021A	P180022A	P00318	GP
		9 50 06.		0000060.13- 0000012.63	0000000.00	0000030.07	0000000.00 0001443.36	02 02
		1 19 13.		0000012.02-				02
		1 19 14.		0000060.13-			0001491.47	02 02
		1 19 16.		0000036.07-				02
		3 02 50.		0000180.41-			0024585.23	02
		3 02 51.		0000084.19-			0024609-29	02
		3 02 52. 13 02 53.		0000060-13-			002.533.34	02 02
	•	3 02 54.		0000132.30~			0024609.29	02
2120	0000	3 07 26.	0 0001707-97-	0000108-24-	0003635.80-	0000631.47	0043974.37	02
		3 07 27.		0000132.30-			0044022-48	02
		13 07 28. 13 07 29.		0000204.47-			0043926.26 0043926.26	0 <i>2</i> 0?
		3 07 30.			0001683-91-		0043926.26	02
		4 11 14.		0000012.03	0002598.05-		0068487-14	02
		4 11 15.		0000036-08	0002549.93-		0061487-14	02
		l4 11 16. l4 11 17.		0000084.19-			0061390.91 0061487.14	0 <i>7</i> 02
		4 11 18.		0000012.03	0002549-93-		0061390.91	02
		14 15 59.		0000012.03			0074669-82	02
		l4 16 00. l4 16 01.		0000084.20	0003391.89-		0074573.60 0074669.82	02 02
		14 16 02.		0000132.31			0074573.60	92
		14 16 03.			0003464.05-		0074477.38	02
		4 16 04.		0000060.14	0003440.00-		0074477-38	02
		l4 52 06 l4 52 07.		-0000036.07- -0000036.07-			0053404.32 0053404.32	02 02
		14 52 78.		0000060.13-			0053308.10	02
		14 52 05-		0000084-19-			0053404.32	02
		14 52 10.		3000084-19-			0053404-32	02
		l5 31 46. l5 31 47.		0000252.58-			0012461-01 0012773-74	02 02
		15 31 48.		0000132.30-			0012966.18	02
		15 31 49.		0000108.24-			0013254-86	02
		15 32 494		0000132.30-			0020351-38	02
		15 32 50 . 15 32 51 .		0000132.30- 0000132.30-			0020495.71 0020567.88	02 02
		15 34 42.		0000132.30-			3037334.91	02
		5 34 43.	6 0001539.57-	0000084.19-	0001635.80-	2000727-69	0037479.25	02
		15 36 06.		0000060.13-			0054270.34	02
		l5 36 07. l5 38 03.		0000012-03	0002573.98- 0003464.05-		0054270.34 0069762.40	02 02
		15 38 04.		0000084.20			0069858,62	02
		15 40 32.	-	0000060.14	0004354.13		0077748.99	02
2150	0000	15 49 33.	.5 0003921-12-	0000156.36	0004330.07-	0001738.05	0077748.99	02
				ELEK	ENT STRESS	-		
10	REC P	T RATE	11/06/69 CONJUGAT	E CTOHCTHUE	TEST CONN 2		,	
1106		01	11/00/07 201100001	L SINOCIONE	icai ceno z			
TEST	COND	HR/MN/SEC	P90021A	290622A	P180021A	P1800224	P0031B	69
	-							_
		15 40 34 . 15 40 35 .		0000132-31	0004354-13- 0004378-18-		0077652.77	02 02
		15 40 36.		U0Q0228.53	0004378.18-		0077556.54	02
2155	0000	15 45 59.	0004378.18-	0000180.42	0004739.02-		0078230-11	02
		15 46 00.		9000306.70	0004763.08-		0078230-11	02
		15 46 01 . 15 4 6 02.		0000276.64	0004690≥71~ 0004714+9₹∾		0078133,89	02 02
		15 46 03.		0000252.59	0004763.03		0018037.66	02
2160	0000	16 29 34.	36 0004666.85-	0000348-81	0005099.86-	0002098-89	0077845.22	02
		16 29 35.		0000396.92	0005899.06~		0077941.46	. 02
		16 29 36. 16 29 37.		0000348-81 0000348-81	0005099.86		0078037.66 0077941.44	02. 02
		16 29 38.		0000300.70	0005009.46		0071941.45	02
2165	0000	l6 33 04 -	2 0005051-75-	0000324-16	rug:508.51-	06 1 1387.56	0080058.37	υ2
		16 33 05.		0000445.04	3005537.87		0079962-14	02
		16 33 06. 16 33 07.		000034%.21	0005436.05-		0079865.92	02 02
		16 33 08.		0000445.04	ของรอดิ-คโ-		0079865.92	02
		16 39 31.		5000348.80-		0000439-02	0012076.11	03
								. 4
	0000	16 39 32.	0000793.84-	0000348-80-			9012052.06	65
2111	0000	16 39 32 . 16 39 33.	0000793.84- 01 0000745.73-	0000324.75-	G000734-27-	0000390.91	0011979.89	ÚŽ
2111 2111	0000 0000 0000	16 39 32.	01 0000793.84- 01 0000745.73- 01 0000817.89-		6000134-27- 6000924-29-	0000390.41		

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1106		RATE OI	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
TEST	COND HR	/MN/SEC	P00328	P900318	P90032b	P1800318	P180032B	GP
		50 06.68 19 12.32	0000024.06 0000336.77-		0000018.03- 0000078.18	0000054.12- 0003674.55	0000012.02-	03 03
		19 13.32	0000072.16-		0000102.24	0003674.55	0000613.42-	03
		19 14.32	0000216.49-		0000054-13	0003626.44	C000661.53-	03
		19 15.32	0000192.44-		0000126.29	0003650.50	0000661.53-	03
		19 16.32	0000336-77-		0000102.24	0003626.44	0000613.42-	03
		02 50.73	0000890.07 000U962.24	0032782.31	0002207.13-		0004871.33-	03 03
		02 52.73	0000914-13	0032782-31	0002231-18-		0004775.11-	03
		02 53.73	0000890.07	0032782.31	0002231.18-	0051690.33	0004751.05-	03
		02' 54.73	0000890.07	0032782.31	0002134.96-	0051690.33	0004775.11-	03
		07 26.70	0000168.39	0059869-37		0075553-88	0006338.75-	03
		07 27.70	0000144.34 0000120.28	0059869.37 0059869.37		0075457.66 0075457.66	0006338.75- 0006242,52~	03 03
		07 29.70	0000072.17	0059869.37		0075457-66	0006266.58-	03
		07 30.70	0000072-17	0059869.37		0075457.66	0006314.69-	U3
		11 14.22	0002453.70-			0084983.83	0006603.36-	03
		11 15,22	0002429.65-			0084887.61	0006579.31-	03
		11 16.22	0002477.76- 0002453.70-			0084887.61 0084695.16	0006627.42-	03 93
		11 18.22	0002429.65-			0084695.16	0006603.36-	03
		15 59.89	0005701 -26-			0089987.48		03
		16 00.89	0005701.26-			0089795.03	0007036.37-	03
		16 01-89	0005653-15-			0089987.48,	0006964-20-	03
		16 02.89	0005653.15- 0005580.98-			0089698.81	0006964.20-	03 03
		16 04.89	0005605.04-			0089602.59	0006940.15-	03
1 2131	0000 14	52 06.49	0003512-17-	0043463.18	0005574.97-	0069491.77	0006771.75-	03
		52 07-49	0003608.39-			0069395.55		03
		52 08.49	0003584.33-			0069395.55	0006795.81-	03 03
		52 09.49 52 10.49	0003512.17-	0043511.29		0069395.55	0006771.75-	03
		31 46.68	0001130.62-			0034706.79	0003909_09-	03
		34 47-68	0001226.85~	0018926.06	0001629.78-	0034947-35	0003909.09-	03
		31 48-68				0035204-14	0003957.20-	03
		31 49.68		0019431-23		0035620.92	0003957.20-	03 03
		5 32 49.18 5 32 50.18				0043174.51	0004558.60-	03
		32 51.18			0002447.69-		0004606.71-	03
		5 34 42.66			0004083.50-		9005665.18-	03
		34 43.66				0058329.79	0005593.01-	.03
		5 36 06.02 5 36 07.02				0071223.80	0006459.03-	03 03
		36 03.12				0063348.03	0006643.92-	03
		38 04-12	0005036.05~	0058426.01		0083444.25	0006819.87-	03
		40 32-15				0091527-07	0007613.71-	03
		40 33-15	0008852-60-	0064007-00	C008551-13-	0091527-07	0007517.49-	03
٠.	:			: ELEM	ENT STRESS			
		¢						
ED.	REC PT	RATE	11/06/89 CONJUGAT	E STRUCTURE	TEST CONG. 2			
1.509	400	0Ĭ					•	
TEST	COND HE	I/MN/SEC	P00328	P90031B	P90032B	P1800318	P180032B	GP
					-	· · · · · ·		Or .
		5 40 34.15 5 40 35.15		0064007.00	0008245.18-	0091527-07		03
		40 16-15		0064007-00	0008221.13-	0091430.84	0007541.55~	03
		45 59.61				0093451.55	0908720.29~	Q3 03
		46 00.63	0010295.46~			0093451.55	0008648.12-	03
		46 01.61	0010079.45-		0008798.47-	0093355.32	0008624.07-	03
		46 02-61	0010055.40-			0093355.32	0,008696.23-	03
		46 03.61 29 34586		0065065,47		0093259.10	0008696.23=	.03. 03.
		29 35.86	0011378.45-			0093740-22	0009826.87-	93
2160	€£ 0000	79 35.86	Ω011522.8i-	0064969.24	Ç009664.49-	0093643.99	0009850,92-	03
2160	0000 16	29 37.86				0093643.99	0009802.61-	-03
		33 04.12				0093547.77	0009850.92-	03
		33 05.12	0012797.78-		0010314-00-	0097300.51	0010981.55-	03 03
2165	0000 16	33 06-12	0012869.95-			0097300.51	0010957.50-	93
2165	0000 16	33 07-12	0912677.50-	0066949.95	0010289.94-	0097300-51	0010933.44~	03
		33 08-12				0097204-28	0010957.50-	03
		39 31.91 39 32.91				0036823.72	0006916.09-	03
		39 33.91		0021596.27		0036823.72	0006892.03-	03 03
211ì	0000 16	39 34.91	0002165-03-	0021644.39	0004035.38-	0035671-83	0005643.92-	03
		39 35.91		0021668.44		0036919.95		93

1D -1106	REC PT 400	RAJE G1	11/06/69 CONJUGATI	STRUCTURE	TEST COND =			
TEST	COND H	R/MN/SEC	K0041A	R0042A	R0043A	коо413	R00428	GP
		9 50 06.68 1 19 12.32	0000096.21- 0000288.66-		0000042.09-	0000054.12-	0000066-14-	04 04
		19 13.32	0000264-61-		0001617-77	0000210.19	0001280-98	04
		1 19 14.32	0000264-61-		0001593.71	0000210.45	0001256-93	04
		1 19 15.32	0000240.55-	0000745.74	0001569.65	0000162-38	0001305-04	04
		1 19 16.32	0000264,61-		0001641-82	0000186-43	0001256.93	04
		3 02 50.73	0000697.62	0004281.97	0007463.37	0001124-62	0505490.78	04
		3 02 51.73	000721.68 0000769.79	0004306.02	0007487.43	0001196.79	0005562.95	.04
		3 02 5 2. 73 3 02 53.73	D000769274	^004330,08 0004354,14	0007511.49	0001148.67 0001124.62	0005562 - 95 0005490 . 78	04 .04
		3 02 54.73	0000697.62	0004402.25	0007511.49	0001148-67	0005514.84	24
		3 07 26.70	0001683.92	0007914.42	0017501.43	0002038-75	0009556.25	04
		3 07 27-70	0001611-75	0007936-48	0013453.32	0002062-80	0009508.13	04
		3 07 28.70	0001659.86	0007890.37	0013549554	0002062-80	0009508,13	04
		3 07 29.70	0001683.92	0007914-42	0013477-37	0002038-75	0009435,97	0,4
		3 07 30.70 4 11 14.22	0001659,86 0002549,94	0007938.48 0021258.21	0013453.32 0019034.31	0002014-69 0002952-87	0009532.19 0013308.98	94 94
		4 11 15.22	0002549,94	0011306.32	0019082.42	0002976-93	0013333,04	04
		4 11 16.22	0002573.99	0011282-26	0019034.31	0002928-82	0013284,93	04
		4 11 17-22	0002573.99	0011354-43	0018986.20	0002928.82	0013284.93	04
		4 11 18.22	0002622.10	0011234.15	0018986-20	0002976-93	0013284.93	04
		4 15 59.89	0003464.06	0014626.05	0024567-19	0003891-06	0016941.44	.04
		4 16 00.89 4 16 01.89	0003512.18 0003688.12	0014698.22	0024567.19 0024567.19	0003891-06	0016917.38 0017013.61	04 04
		4 16 02.89	0003464.06	0014601-99	0024567-19	0003915-11	0016941.44	04
		4 16 03.89	0003536.23	0014698-22	0024567-19	0003939-17	0016893.33	04
		4 16 04,89	0003488.12	0014650.10	0024567-19	0003891.06	0016941.49	Q4
		4 52 06.49	0002165.04	0011113.87	0019106-48	0002567.93	0013164.65	04
		4 52 07.49	0002213-15	0011137-93	0019130-53	0002567-98	0013230.81	04
		4 52 08.49	0002116.93	0011041.70	0019058-37	0002519.87	0013212.76	94
		4 52 09.49 4 52 10.49	0002165.04 0002189.10	0011089-82	0019154.59 0019106.48	0002592.03 0002567.98	0013284.93 0013260.87	04 04
		5 31 46.68	0000072-17	0002525-88	0004865-33	0000451-05	0003686.58	04
		5 31 47.68	0000096.22	0002646-16	0004985-61	0000426.99	0003782.81	04
		5 31 48.68	0000C72-17	0002570-22	0005057-77	0000451.05	0003854.97	94
		5 31 49.68		0002670.22	0005105.89	0000402-94	0003927.14	′04
		5 32 49,18	0000360.84	0004065-46	0007391-21	0000811.89	0005370.50	04
		5 32 50.18 5 32 51.18	0000384 . 90 000045 7. 06	0004065.46	0007439.32 0007463.37	0000739,72 0000787.83	0005442.67 0005496.78	Ω4 04
		5 34 42.66	0001178-74	0007553.58	0013212-76	0001653.85	0009267.57	.04
		5 34 43.66	0001274-97	0007601-70	001_308_98	0001701-96	0009315.69	04
		5 36 06.02	0002116.93	0010921-42	0018986.20	0002616_09	0013092.48	04
		5 36 07.02	0002116.93	0011017-65	0019010-25	0002592203	0013116.53	04
		5 38 03.12 5 38 04.12	00030/9 -17 0902982 -9 4	0014457.66	0024783.69	0003506-16, 0003433-99	0016845.21	04
		5 40 32.15	0002982.94	0014505-77	0024783,69 0030605.25	0003433.49	0016645.21	.04 .04
		5 40 33.15	0003945-18	0017993.89	0030653-36	0004396.23	0020694.17	04
			0-02,1-02				,	
				ĘLEM	ENT STRESS			
10	REC PT		11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
1106	400	01						
TEST	COND M	R/MN/SEC	R094ÌA	R0042A	R0043A	R0041B	R00428	GP
		5 40 34-15		0017993-89	0030653-36	0006396.23	0020694.17	Ŭ4
		5 40 35:15	0003945.18	0017993.89	0030653.36	0004458,40	0020718-23	04
		5 40 36.15 5 45 59.61	0004017.35 0004402.25	0018017.94 0019749.98	0030701.47	0004396.23 0004829.24	0020694.17 0022570.54	04 04
		5 46 00.61		0019749.98	0033636.30	0004901-41	0022546.49	04
		5 46 01.61	0004450.36	0019725.92	0033636.30	0004925.47	0022570.54	04
2155	0000 1	5 46 02.61		0019749.98	0033588.19	0004901-41	0022546.49	04
		5 46 03-61		0019749-98	0033588.19	0004853.30	0022570.54	06 -
		6 29 34.86 4 20 38 84		0021313.62	0036234.35	00115214.14	0024138.24	04
		6 29 35.86 6 29 36.86		0021289,56	0036186.24	001/5334.42 000 <i>5</i> 262.25	0024134.18 0024230.41	94 94
		6 29 37.86		0021313.63	0036234.35	0005262,25	0024162.29	94
		6 29 38.85		0021289.56	0036186.24	0005310-36	0024158.24	04
		6 33 04-12		0023069.70	0039313.52	0005695.26	0026082.72	04
		6 33 05.12		0023117.82	0039361.63	0005743.37	0026178.94	.04
		6 33 06.12 6 33 07.12		0023189.98	0039265.41	0005719.31	0026178.94 0026178.94	04 04
		6 33 08-12		0023141.87	0039265.41	0005743.37	DO26178.94	04
		6 39 31.91		0004209-80	0007752-05	0000763.78	0005466.73	04
2111	0000 1	6 39 32.91	0000384-90	0004233.86	0007752-95	0000811.89	0005490.78	04
2111	G000 1	6 39 33.91	0000384.90	0004257.91	0007727.95	0000763.78	0005490-78	04
		6 39 34.91		0004161.69	0007703.93	0000787.83	0005490.78	04
2111	. 0000 1	6 39 35.71	0000409.95	0094257.91	0007776.10	0000811.89	0005562.95	04

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1D 1106	REC PT	RATE Ol	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
TEST	COND H	R/HŅ/SEC	R0043B	R90041A	R90042A	R90043A	R90041B	GP
2000	0000 0	9 50 06.68	0000012.03	0000018.03-	0000048.11	0000066.14-	0000042.09-	05
		1 19 12.32	0001984.62	0000018.03~		0001665.88	0000198.46	05
2100	0000 1	1 19 13.32	0ÓÓZO3Z.73	0000042.09-	0000817.90	0001762-10	0000198.46	บร
		1 19 14.32	0002008-68	0000018-03-		0001713.99	0000198.46	05
		1 19 15.32		-20.5100000		0001738.03	0000198.46	05
		1 19 16.32		G000018.03-		0001738-05	0000150.35	05
		3 02 50.73 3 02 51.73	0008359.46 0008383.52	0001208.81 0001256.93	0004161.69	0007559460 9007583465	0001208-81	05 05
		3 02 52.73		0001232.87	0004233.86	0007583.65	0001184.76 0001112.59	05
		3 02 53.73		0001208.81	0004209.80	0007583.65	0001184.76	บร์
		3 02 54.73		18-8021000	0004306.02	0007607.71	0001184.76	05
		3 07 26.70	0014493.74	0002411.61	0007649,81	0013381.15	0002147.00	05
		3 07 27.70		0002363.50	0007649.81	0013429.26	0002171.05	05
		3 07 28.70		0002363.50	0007649.81	0013357.09	0002147.00	05
		3 07 29.70 3 07 30.70		0002315.39	0007649.81	0013429.26	0002122.94	05 05
		4 11 14.22		0002387.56	0010753.86	0013308.98 0018841.86	0002171.05 0002940.85	05
		4 11 15.22		0003349.80	0010777.09	0018865.92	0002940.85	05
		4 11 16.22		0003325.74	0010825.20	0018817.81	0002916.79	05
2130	0000 1	4 11 17.22	0020195+01	0003301.69	0010753.03	0018817.81	0002940.85	05
		4 11 18.22		0003277.63	0010728.98	0018841.86	0002940.85	05
		4 15 59.89		0004239.87	0014000.59	0024446.91	0003830.92	05
		4 16 00-89		0004215+81	0014000-59	0024422.85	0003782.81	09
		.4 16 01.89 .6 16 02.89		0004312.04	0014048.70	0024470.97 0024398.80	0003830.92 0003854.97	05 05
		4 16 03.89		0004312.04	0014024-65	0024398.80	0003806.86	05
		4 16 04.89		0004215.81	0013976.54	0024446.91	0003830.92	05
		4 52 06,49		00,3301.69	0010704.92	0018673.47	0003037.07	05
		4, 52 07.49		0003373.85	0010723.98	0018721.58	0003037.07	05
		14 52 08.49		0003373,85	0010753.03	0010721.58	0002988.96	05
		4 52 09.49		0003373-85	0010704.92	0018697.53	0002988.96	05
		14 52 10.49 15 31 46.68		0003373.85	0010728.90	0018697.53 0004793.16	0002988-96	05 05
		5 31 47.68		0000703.64 0000703.64	0002622270	0004193.16	0000751.75 0000751.75	05
		5 31 48.68		0000703.64	0002718.33	0004889.38	0000727.69	05
		5 31 49-68		0000751.75	0002790.50	0005081.83	0000751.75	05
		5 32 49.18		0001184.76	0004017.35	0007246.87	0001112.59	05
		15 32 50.18		0001208.81	0004065.46	0007294.98	0001140.70	05
		15 32 51.18		0001232.87	0004089.52	0007270.93	0001160.70	05
		15 54 42.66		0002291.33	0007337.08	0012875.97	0002074.83	05
		15 34 43.66		0002339.45	0007313.02	0012924.09	0002074.83	05
		15-36-06-02 15-36-07-02		0003325.74	0010632.75 0010584.64	0018601.39 0018577.25	0002940.85 0003013.01	0,5 0,5
		5 33 03.12		0004287.98	0013952.48	0024326.63	0003806.86	os
		5 38 04-12		0004336.09	0013976.54	0024422.65	0003830.92	05
2150	0000	15 40 32-15		0005226.17	0017344.38	0030292.52	0004672.88	05
2150	0000	15 40 33.19	0032030.56	0005322,39	001/544.38	0030340.63	0004769.10	05
	-	-		ela	ENT STRESS	i		
10	ŘEC -81	r RATE	ta the can edition	r cznuczu <u></u>	**** ***** *			
1106		01	11/06/69 CONJUGAT	E SIRVETURE	1521 COUNTY S			
TEST	COND I	IR/HN/SEC	R0043B	R90C41A	R90042A	R90043A	R90041B	GP
2150	J050 /	- 40 34-15	0032030.56	0005298.33	0017344.38	0030292.52	0004672.88	05
		l5 40 35.19		0005274.28	0017368.43	00 30 29 2 . 52	0004720.99	05
		5 40 36.15		0005298.33	0017344.38	0030340.63	0004672.88	05
		15 45 59.61 15 46 00.61		0005755.40	0018956.13	0023179124	0005154.00	05
		15 46 01.61		0005779.45	0019004,24 0018980.18	0033179.24	0005101.89	05
		02.61		0005755.40	0018980-18	0033131.13	0005081.83 0005129.94	05 05
		5 46 03.61		0005803.51	CO18980.18	0033179.24	0005129.94	05
		16 29 34.86		0006188-41	0020399.49	0035681.06	0005418-61	05
		6 29 35.86		0006188.41	0020423.54	0035681.06	0005490.78	05
		6 29 36.86		0006188.41	0020375.43	0035681.05	0005442.67	05
		16		0006212.46 0006164.35	0020423.54	0035632.95	0805490.78	05
		75 33 04-12		0000104-35	0020447.60 0022155.58	0035681.06	0005442.67 0005875.68	05 05
		6 33 05-12		0006597.36	0022155.58	0038808.34	0005899.73	05
		6 32 96.12		0006669.53	0022179.63	0038808.34	0005875.68	05
2165	9000	6 33 07-12	0040736.84	0006669.53	0022131.52	0038868.34	0005871.62	05
		6 33 08-12		0006693.58	0022131.52	003 3808-34	0005875-68	05
		6 39 31.91		0001305.04	0004113.58	0007343.09	0001208.81	05
		l6 39 32.91 l6 39 33.91		0001305.04	0004161.69	0007343.09	0001184.76	U5
		6 39 34.91		0001232.27	0004089.52	0007367.15	0001184.76 0001160.70	05 05
		6 39 35-91		0001280.98	0004161.69	0007391,21	0001160.70	05

April Company

ID REC PT RATE 1106 400 G1	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
TEST COND HR/MM/SEC	R900428	R900438	P0051A	P0052A	P180051A	GP
TEST COND HR/MN/SEC 2000 0000 09 50 06.68 2100 0000 11 19 12.32 2100 0000 11 19 13.32 2100 0000 11 19 14.32 2100 0000 11 19 15.32 2100 0000 11 19 15.32 2110 0000 13 02 50.73 2110 0000 13 02 50.73 2110 0000 13 02 53.73 2110 0000 13 02 54.73 2110 0000 13 02 54.73 2110 0000 13 02 54.73 2120 0000 13 07 25.70 2120 0000 13 07 26.70 2120 0000 13 07 26.70 2120 0000 13 07 29.70 2120 0000 13 07 29.70 2120 0000 14 11 14.22 2130 0000 14 11 15.22 2130 0000 14 11 17.22 2130 0000 14 11 17.22 2130 0000 14 11 17.22 2130 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 03.89 2140 0000 14 52 07.49 2131 0000 14 52 07.49 2131 0000 14 52 07.49 2131 0000 14 52 07.49 2131 0000 14 52 08.49 2131 0000 14 52 08.49 2131 0000 14 52 09.49 2131 0000 15 31 46.68 2100 0010 15 31 47.68 2100 0010 15 31 47.68 2100 0010 15 32 49.18 2100 0010 15 32 49.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0020 15 34 43.66 2100 0030 15 36 07.02 2100 0030 15 36 06.02 2100 0030 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 32.15		R900438 0000018.04 0001533.57 0001605.74 0001533.57 0001557.63 0001557.63 0001557.63 0001557.63 0001557.63 0001557.63 0001557.63 0006489.11 0006513.16 0006489.11 0006537.22 0012286.60 0012310.66 0012262.55 0012262.55 0012263.50 0017843.54 0017891.65 0017843.54 0017891.65 0017843.54 0017891.65 0017843.54 0017891.65 0017878.92 003568.87 001602.98 0017578.92	0000030.06- 0000499.16 0000475.11 0000402.94 0000426.99 0000451.05 0004997.63 0005021.69 0009351.77 0009279.60 000937.71 0013321.01 0013321.01 0013272.90 0013296.95 0017242.14 0017218.08 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012190.38 0012214.43 0012351.47 0002399.59 0002471.75 0002495.81 0004083.51 0004203.79 0004227.84 0008317.36 0006321.45 0006227.84 0008317.36 0006231.45 0006231.45 0006231.45	P0052A 0000096.21- 0000649.51 0000625.46 0000697.62 0000673.57 00002790.50 0002790.50 0002790.50 0002766.44 0005075.82 0005051.76 0005075.82 0005051.76 0007264.91 0007268.97 0007288.97 0007288.97 0007288.97 0007288.97 0007288.97 0007288.97 0007498.06 0009478.06		CP 06 06 06 06 06 06 06 06 06 06 06 06 06
ID REC PT RATE 1106 400 01	11/06/69 CONJUGAT		FRI STRESS		-	
TEST COND HR/MN/SEC	R90042B	R900438	P0051A	P0052A	P180051A	GB
2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 45 59.61 2155 0000 15 46 00.61 2155 0000 15 46 01.61 2155 0000 15 46 02.61 2155 0000 15 46 03.61 2156 0000 16 29 34.86 2160 0000 16 29 35.86 2160 0000 16 29 36.86 2160 0000 16 29 38.86 2160 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2111 0000 16 39 31.91 2111 0000 16 39 32.91 2111 0000 16 39 34.91 2111 0000 16 39 34.91 2111 0000 16 39 34.91	0018950.11 0018853.89 0018902.00 0020692.15 0020634.03 0020706.20 0020730.26 0022245.79 0022245.79 0022245.79 0022245.79 0022245.79 0022245.79 0024170.27 0024170.27 0024170.27 0024170.27 0024170.27 0024170.27 0024170.27	0029462.59 0029510.70 0029510.70 0032445.53 0032445.53 0032445.53 003297.42 0035043.58 0035043.58 0034947.35 0038218.97 0038218.97 0038218.97 00382570.35 0038270.35 00382670.35 00382670.35	0020080.75 0020032.63 0021884.95 0021909.00 0021866.83 0021836.83 0023496.70 0023472.64 0023472.64 0023472.64 0023472.64 0025349.01 0025349.01 0025349.01 0025349.01 0025349.01	0012220.45 0012244.50 0012172.34 0013423.25 0013423.25 0013399.19 0013423.25 0013447.30 0014481.71 0014433.60 0014409.54 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62 0015732.62	0014217.10 0014241.15 0014241.15 0015419.90 0015492.06 0015492.06 0016598.64 0016598.64 0016622.70 0016622.70 0016622.70 0017921.72 0017921.72 0017921.72 0017921.72 0017921.72 0017921.72 0017897.66 0003466.06 0003488.12 0003488.12	06 06 06 06 06 06 06 06 06 06 06 06 06 0

P0072A

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11/06/69 CONJUGATE STRUCTURE TEST COND 2

A1109

P 180052A

TEST COND HRAMN/SEC

10 Y 4 4 Y

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2001	0000	กจร	86.60	0000006.01	0000054.12-	0000024.06	0000024.05-	0000048-10-	07
			9 12.32	0001088.53	0000884.06	0001659.86	0000360.84	0001491.47	07
			9 13.32	0001040.42	0000860.00	0001635.81	0000360.84	0001515.53	07
			14.32	0001040.42	0000884.06	0001659.86	0000312.73	0001515.53	-07
			9 15.32			0001037.88	0000312.73		07
				0001136.65	0000835,95			0001587.70	
			9 16.32	0001040.42	0000860.00	0001611.75	0000288.67	0001515.53	07
			2 50.73	0004528.54	0004300.01	0006759.74	0002237.21	0006038.06	07
			2 51.73	0004576.65	0004275.95	0006711.62	0002237.21	0005989.94	07
			2 52.72	0004504.49	0004300.01	0006783.79	0002309.38	0006038.06	07
			2 53.73	0004504.49	0004324.07	0006735:68	0002213.15	0006062.11	07
211	0000	13 ()2 54.73 <i>,</i>	0004480.43	0094275.95	0006759.74	0002237.21	0006062.11	07
212	0000	13 (37 26.70	0007944.49	0007691.91	0011715.27	0004426.30	0010680.86	07
212	0000	13 (7 27.70	0007920.44	0007643.79	0011763.38	0004426.30	0010632.75	07
			7 28.70	0007968.55	0007691-91	0011739.33	0004426.30	0010584-64	07
			7 29.70	0007.944.49	0007667.85	0011763.38	0004354.14	0010680.86	07
			7 30.70	0007992.61	0007667-85	0011739.33	0004426.30	0010656.81	07
			11 14.22	0011119.89	0010674.85	0016358.08	0006615.40	0015083.11	07
			11 15.22	0011095.83	0010650.79	0016382.14	0006639.46	0015083.11	07
			16.22	0011047.72	0010626.74	0016309.97	0006591.34	0015083.11	07
			11 17.22	0011047.72	0010650.79	0016358.08	0006615.40		97
								0015059.06	07
			11 18-22	0011071.77	0010626.74	0016334,02	0006591.34	0015059.06	
			15 59.89	0014271.22	0013705.91	0021049.00	0008876.66	0019509.42	97
			16 00.89	0014199.05	0013585.63	0020952.78	0008852.61	0019509-42	07
			16 01-89		0013657.79	0021000.89	0008924.78	0019509.42	07
			16 02.89	0014271.22	0013633.74	0020928.72		0019509.42	07
			16 03.89	0014150.94	0013561.57	0020904.66	0008900.72	0019509.42	07
214	0000	14	16 04.89	′0014199 - 05	0013609.68	0020976.83	0008852.61	0019461.30	07
213	1 0000	14	52 06.49	0011119.89	0010771.07	CO16334.02	0006591.34	0014986.89	07
213	1 0000	14	52 07.49	0011071.77	0010819.19	0016285.91	0006639.46	0014986.89	07
213	1 0000	14	52 08.49	0011119.89	0010819-19	0016285.91	0006591.34	0015035.00	07
213	1 0000	14	52 09.49	0011071.77	0010795.13	0016285.91	0006615.40	0015035.00	07
			52 10.49	0011095.83	0010771.07	0016285.91	0006591.34	0014986-89	07
			31 46.68	0003037-07	0002592.03	0004522.53	0001299.02	0003897-07	07
			31 47.68		0002592.03	0004666.86	0001347.14	0003969-24	07
			31 48.68	0003109.24	0002616.09	0004666.86	0001371.19	0004089.52	07
			31 49.68	0003157.35	0002688.26	0004787-14	0001395.25	0004113.58	07
			32 49.18	0004384.21	0003939.17	0006663.51	0002116.93	0005893.72	07
			32 50 . 18		0003963.23	0006735.68	0002140.98		07
				0004480-43				0005869.66	07
			32 51.18	0004480.43	0003987-28	0006783.79	0002116.93	0005869+66	
			34 42.66		0007186.73	0011570.94	0004257.91	0010368-14	07
			34 43.66		0007210.79	0011594.99	0004281.97	0010392-19	07
			35 06.02		0010314.01	0016382.14	0006447.01	0014890.66	,07
			36 07.02		0010314.01	0016358.08	0006543.23	0014962.83	07
			38 03.12		0013393.18	0021097.11	0008804.50	0019533.47	97
			38 04.12		0013465.35	0021145.22	0008900.72	0019533.47	07
			40 32.15	0017639.06	0016472.35	0025980.48	0011186.04	0024152.22	07
215	0 0000	15	40 33.15	0017615.01	0016424.23	0026028.59	0011258.21	0024152.22	97
•				- 0	ELEH	ENT STRESS		-	
					•				
10	REC F	T	RATE	11/06/69 CONJUGATE	E STRUCTURE	TEST COND 2			
110	6 400)	01		• •				
						*			
TES	T COND	HR/	HH/SEC	·P180052A	P0071A	P0072A	P180071A	P180072A	GP
							11000114	LIGHAISH	Vr.
215	0 0000	15.	40 34-15	0017639.06	0016672-35	0025980.48	0011210.10	0026226 30	07
			40 35.15	0017687.1.	0016495.40	0025932.37	0011186.04		
			40 36.15	0017663.12	0.16520.46	0025980.48		0024152-22	07
			45 59.61		0017891.65		0011186.04	0024152-22	07
			46 00.61			0028289.86		0026437.54	07
			46 01.61	0019250.81	0017915.71	0028289.86	0012364.78	0026389.43	07
				0019226.76	0017915.71	0028289.86	0012340.73	0026437.54	07
			46 02.51	0019250.81	0017915.71	0028289.86	0012340.73	0026341.32	07
			46 03,61	0019274.87	0017915.71	0025241.74	0012388.84	0026389.43	07
			29 34.86		0019118.51	0030262.45	0013230.80	0028362.02	07
			29 35.86		0019142.56	0030262.45	0013278.91	0028362+02	07
			29 36.86		0019142.56	0030262.45	0013206.74	0028362.02	07
			29 37.86	0020694.17	0019094.45	6030214.34	0013278.91	0028362-02	07
			29 38.86	0020622.01	0019070.39	0030214.34	0013254.86	0028362.02	07
			33 04.12	0022305.93	0020634.03	0032668.05	0014409.54	0030767.62	07
215	5 0000	16	33 05.12	0022329.98	0020634.03	0032668.05	0014481.71	0030767.62	07
216	5 0000	16	33 06.12		0020585.92	0032668.05	0014433.60	0030815.74	07
216	5 0000	16	33 07.12		0020634.03	0032668.05	0014433.60	0030767.62	10
			33 08.12		0020561.87	0032619.94	0014457.66	0030719.51	07
			39 31.91	0004624.77	0004155.67	0006904.07	0002213.15	0006038-06	ŏ7
			39 32.91	0004672.88	0004155.67	0006904.07	0002237.21	0005965.89	07
			39 33.91	0004648.82	0004155-67	0006928.13	0002213-15		
			39 34.91	0004672.88	0004179.73	0006855.96		0006038.06	07
					0004131.62	0006928.13	0002213.15 0002165.04	0005965-89 0006038-06	07 07
211	£ 0000	2.0	44 44-01	0004624.277					

1D REC PT RATE 11/06/69 CONJUGATE STRUCTURE TEST COND 2 1106 400 01

1200 400 01						
TEST COND HR/MN/SEC	P0091A	P0092A	P180091A	P180092A	L11210A	GP
#00/: 0000 00 E0 0/ /D	0000074 06-	0000044 14-	0000012 02-	0000012 02-	0000148 38-	08
2000 0000 09 50 06.68 2100 0000 11 19 12.32	0000216.49-		0000012-02-		0000096-22	08
2100 0000 11 19 13.32	0000216-49-		0000012.02-		0000072-17	Ő8
2100 0000 11 19 14.32	0000168.38-		0000012.02-		0000048-10-	08
2100 0000 11 19 15.32	0000168.38-		0000060.13-		0000000.00	08
2100 0000 11 19 16.32	0000192-44-		2000084.19-		0000024-05-	08
2110 0000 13 02 50.73	0002140.98	0003061-13	0001070.49	0002922.80	0000288-67	08
2110 0000 13 02 51.73	0002165-04	0003133.29	0001142.66	0002922480	0000312.73	9,8
2110 0000 13 02 52.73	0002165.04	0003109.24	0001142.66	0002922.80	0000288.67	30
2110 0000 13 02 53.73	0002165.04	0003157.35	0001142.66	0002922-80	0000312,73	08
2110 0000 13 02 54.73	0002189.10	0003157.35	0001166.72	0003019.03	0000336.78	98
2120 0000 13 07 26.70	0004378.19	0005490-78	0002249+24	0005063.79	0000721-68	08
2120 0000 13 07 27.70	0004330.08	0005466.73	0002225.18	0004991.62	0000721-68 0000697-62	08 08
2120 0000 13 07 28.70 2120 0000 13 07 29.70	0004378.19 0004378.19	0005442-67 0005466-73	0002275.29	0005039-73	0000697-62	08
2120 0000 13 07 29.70	0004378.19	0005442.67	0002225.18	0005015.68	0000697.62	08
2130 0000 14 11 14.22	0006422.95	0007727.99	0003331.76	0007036-38	0000697.62	08
2130 0000 14 11 15.22	0006422.95	0007752.05	0003307.70	0007060-44	0000697-62	08
2130 0000 14 11 16.22	0006422.95	0007727.99	0003355.81	0007012-32	0000769.79	08
2130 0000 14 11 17.22	0006447-01	0007703.93	0003331.76	0007012-32	0000817490	08
2130 0000 14 11 18.22	0006398.90	0007727.99	0003355.81	0007012-32	0000769.79	√08
2140 (0000) 14 15 59.89	0008467.71	0010013.31	0004438.33	0008984.92	0000745.74	08
2140 0000 14 16 00.89	0008443.66	0010037.37	0004438.33	0009033-03	0000817-90	08
2140 0000 14 16 01.89	0008467.71	0010013.31	0004462-39	0009008-97	0000841-96	08
2140 0000 14 16 02 89	0008419.60	0009989.25	0004486.44	0008984-92	0000697-62	08
2140 0000 14 16 03.89	0008443.66	0009989.25	0004486.44	0009008-97	0000721-68	08
2140 0000 14 16 04-89	0008443.66	0010013.31	0004438.33	0009033.03	0000769 .79 0000890 . 06-	08 08
2131 0000 14 52 06.49 2131 0000 14 52 07.49	0005484.77 0005460:71	0007463.37	0003331.70	0006964.21	0000890.06	Ŭ8
2131 0000 14 52 08.49	0005508-82	GG07487.43	0003307.70	0006988-27	0000938-17-	08
2131 0000 14 52 09.49	0005508.82	0007535.54	0003331.76	0006916.10	0000962-23-	08
2131 0000 14 52 10.49	0005532.88	0007311.49	0003355.81	0006964.21	9000914-12-	08
2100 0010 15 31 46.68	000C505-18	0002096-89	0000565.32	0002032.73	0000264-61-	08
2100 0010 15 31-47.66	0000529.23	0002147.00	0000613.43	9002080 -8 4	0000264-61-	08
2100 0010 15 31 48.68	0000529+23	0002147.00	0000589.37	0002080.84	0000240.55-	08
2100 0010 15 31 49,68	0000601-40	C002171.05	0000517-20	0002080-84	0000144-33-	08
2100 0010 15 32 49.18	0001347-14	0003085.18	0001046.44	0002826.59	0000000-00	9,0
2100 0010 15 32 50.18	0001395.25	0003085.18	0001046.44	0002898.75	0000024-06	08
2100 0010 15 32 51.18	0001395.25	0003109.24	0001022-38	0002898.75	0000144-34	08
2100 0020 15 34 42.66 2100 0020 15 34 43.66	0003391.90 0003415.95	0005394.56 0005418.61	0002177.07	0004871.34	0000384.90 0000408.95	. 90. . 00
2100 0030 15 36 06.02	0005412-60	0007679.88	0003211.48	0006940.16	0000433-01	08
2100 0030 15 36 07.02	0005412.60	0007727.99	0003283.64	0006916.10	0000408-95	Ĝã
2100 0040 15 38 03.12	0007385-19	0010133.59	0004366.16	0008960.86	0000312.73	08
2100 0040 15 38 04.12	0007385.19	0010133.59	0004414.28	0008936.80	0000336-78	-08
2150 0000 15 40 32-15	0009309-67	0012563.25	0005520.85	0011077.79	0000376.78	08
2150 0000 15 40 33.15	0009333.73	0012539.19	0005544.91	0011125.90	0000360+84	08
		ELEM	ENT STRESS			
ID REC PT RATE	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
1106 400 01	22, 00, 3, 00,000,00		((5) (0.15)		\$	
TEST COND HR/MN/SEC	PQQ91A	P0092A	P180091A	P180092A	F11510V	GP
		*** * * * * * * * * * * * * * * * * *		51-14-11	WANTED TO	شد ^
2150 0000 15 40 34 15	0009357~78	0012563-25	0005593.02	0011101.84	0000408-95	CS.
2150 0000 15 40: 35-15	0009309.67	0012563.25	0005593.02	0011125.90	0000433.01	08
2150 0000 15 40 36.15	0009309.67 0010223.80	0012563.25	0005568.96 0006098.20	0011149.96 0012160.31	0000408•95 0000384•90	08 08
2155 0000 15 45 59.61 2155 0000 15 46 00.61	0010223.80	0013741-99	0006170.36	0012160.51	0000304.70	08
2155 0000 15 46 01.61	0010247.86	0013790:10	0006170.36	0012232.45	0000433-01	80
2155 0000 15 46 02.61	0010223-80	0013766-05	0006122-25	0012208.42	0000360-84	38
2155 0000 15 46-03-61	0010199.74	0013766-05	0006146.31	0012160.31	.0000336.78	08
2160 0000 16 29 34.66				0013122.55	0000288.67	08
	0010945.48	0014824.51	15.4 €000000	ひひま ひとをと チンプ		
2160 0000 16 29 35.86	0010945-48 0010993-59	0014824.51	0006603.37 0006603.37	0013122.55	0000264-62	08
2160 0000 16 29 36-86	0010993.59 0010969.54	0014848.57 0014824.51	0006603.37 0006651.48	0013122.55 0013122.55	0000264.62 0000288.67	08
2160 0000 16 29 36.86 2160 0000 16 29 37.86	0010993.59 0010969.54 0010993.59	0014848.57 0014824.51 0014848.57	0006603.37 0006651.48 0006627.43	0013122.55 0013122.55 0013122.55	0000264-62 0000288-67 0000288-67	08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86	0010993.59 0010969.54 0010993.59 0010945.48	0014848-57 0014824-51 0014848-57 0014848-57	0006603.37 0006651.48 0006627.43 0006627.43	0013122.55 0013122.55 0013122.55 0013122.55	0000264.62 0000288.67 0000288.67 0000288.67	08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 04.12	0010993.59 0010969.54 0010993.59 0010945.48 0011907.72	0014848.57 0014824.51 0014848.57 0014848.57 0016147.59	0006603.37 0006651.48 0006627.43 0006627.43	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67	08 08 08 08
2160 0000 16 29 36-86 2160 0000 16 29 37-86 2160 0000 16 29 38-86 2165 0000 16 33 04-12 2165 0000 16 33 05-12	0010993.59 0010969.54 0010993.59 0010945.48 0011997.72 0011931.78	0014848.57 0014824.51 0014848.57 0014848.57 0016147.59 0016123.53	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18	0000264-62 0000288-67 0000288-67 0000288-67 0000288-67 0000336-78	08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 15 33 06.12	0010993.59 0010969.54 001093.59 0010945.48 0011967.72 0011931.78 0011955.83,	0014848.57 0014824.51 0014848.57 0014848.57 0016147.59 0016123.53 0016147.59	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000336.78 0000384.90	08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 04.12 2165 0000 16 33 06.12 2165 0000 16 33 07.12	0010993.59 0010969.54 0010993.59 0010945.48 0011997.72 0011931.78 0011931.78	0014848.57 0014824.51 0014848.57 0014848.57 0016147.59 0016123.53 0016147.59	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77	0013122.55 0013122.55 0013122.55 0013122.55 0914253.18 0014253.18 0014253.18	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000386.78 0000384.90	08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 05.12 2165 0000 16 33 06.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 08.12	0010993.59 0010969.54 0010993.59 0010945.48 0011907.72 0011934.78 0011955.83, 0011931.78	0014848.57 0014824.51 0014848.57 0016147.59 0016123.53 0016147.59 0016123.53	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77 0007180.72	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18 0014253.18 0014253.18	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000336.78 0000384.90 0000312.73	08 08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0900 16 29 38.86 2165 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 06.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2111 0000 16 39 31.91	0010993.59 0010969.54 0010993.59 0010945.48 0011907.72 0011931.78 0011931.78 0011931.78 0011931.78	0014848.57 0014848.57 0014848.57 0016147.59 0016123.53 0016147.59 0016123.53 0016147.59	0006603.37 00C6651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77 0007180.72 0007180.72 0007180.72	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18 0014253.18 0014253.18 0014253.8	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000386.78 0000384.90 0000360.84 0000312.73	08 08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 05.12 2165 0000 16 33 06.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 08.12	0010993.59 0010969.54 0010993.59 0010945.48 0011907.72 0011934.78 0011955.83, 0011931.78	0014848.57 0014824.51 0014848.57 0016147.59 0016123.53 0016147.59 0016123.53	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77 0007180.72	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18 0014253.18 0014253.18	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000336.78 0000384.90 0000312.73	08 08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 07.12 2165 0000 16 33 08.12 2165 0000 16 39 31.91 2111 0000 16 39 32.91 2111 0000 16 39 33.91 2111 0000 16 39 34.91	0010993.59 0010969.54 0010993.59 0010945.48 0011907.72 0011931.78 0011955.83, 0011931.78 0011979.89 0001599.58	0014848.57 0014848.57 0014848.57 0016147.59 0016123.53 0016147.59 0016123.53 0016147.59 0003253.57	0006603.37 00C6651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77 0007180.72 0007180.72 0007180.72	0013122.55 0013122.55 0013122.55 0013122.55 0014253.18 0014253.18 0014253.18 0014253.18 0014277.24 0002922.80 0002970.92	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000336.78 0000384.90 0000360.84 0000312.73	08 08 08 08 08 08 08 08
2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2165 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 39 31.91 2111 0000 16 39 32.91 2111 0000 16 39 33.91	0010993.59 0010969.54 0010945.48 0011997.72 0011931.78 0011931.78 0011931.78 0011979.89 0001539.58 00015491.47	0014848.57 0014848.57 0014848.57 0016147.59 0016123.53 0016147.59 0016123.53 0016147.59 0003253.57 0003253.57	0006603.37 0006651.48 0006627.43 0006627.43 0007156.66 0007204.77 0007204.77 0007180.72 0007180.72 0001262.94 0001262.94 0001214.83	0013122.55 0013122.55 0013122.55 0013122.55 0914253.18 0014253.18 0014253.18 0014253.18 0014277.24 0002922.80 0002970.92	0000264.62 0000288.67 0000288.67 0000288.67 0000288.67 0000336.78 0000384.90 0000312.73 0000817.89- 000086.01- 0000793.84-	08 08 08 08 08 08 08 08

10 1106	REC PT	RATE 01	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
TEST	COND HR	/#X/SEC	R0111A.	R0112A	R0113A	R90111A	R90112A	GP
2000	0000 09	50 06.68	0000018.04	0000042.09-	0000030-06-	0000036.07-	0000006-00-	09
2100	0000 11	19 12.32	0000426.99	0001305.04	0002207.14	0000589.37	0002014.69	09
		. 19 13.32 . 19 14.32	0000475.11 0000402.94	0001353.15	0002279.31	0000613.43 0000589.37	0002014.69 0002014.69	09 09
		19 15.32	0000426.99	0001280.98	0002231.19	0000589.37	0002038.75	09
		.19 16.32	0000451.05	0001353,15	80.6815000	0000637.48	0002062-80	09
		02 50.73	0002712.31 0002760.43	0004239.87	0005815.54 0005815.54	0002970.92 0003019.03	0005815.54 0005887.71	09 09
		02 52.73	0002688.26	0004215.81	0005791.48	0003019.03	0005863.65	09
2110	0000 13	02 53.73	0002664.20	0004191.76	0005791.48	0002994.97	0005887.71	09
		02 54.73	0002640-15	0004215.81	0005791.48	0002994-97	0005863.65	09
		07 26.70 07 27.70		0007054.42	0009375.83	0005424.63	0009616±39° 0009544•22	U9 09
2120	0000 13	07 28:70	0004901-41	0007102.53	0009351.77	0005328-40	0009592.33	อจ
		07 29.70		0007036.37	0009351.77	0005448-68	0009592.33	09
		07 30.70 11 14.22		0007078.48	0009303.66 0012960.17	0005400.57	0009568.27 0012960.17	09 09
		11 15.22		0009820.86	0012936.11	0007589.67	0012984.23	09
		11 16.22		0009796.81	0012936-11	0097613.72	0012936-11	09
		11 17.22 11 18.22		0009868.97	0012912.06	0007541.56 0007541.58	0012960-17 0012984-23	09 09
		15 59.89		0012370.80	0016400.18	0009682.54	0016376.12	09
		16 00.89		0012418.91	0016352-07	0009706-60	0016279.90	09
		16 01.89 16 02.89		0012370.80	0016352.07 0016376.12	0009730.65 0009682.54	0016352.07 0016328.01	09 09
		16 03.89		0012394,85	0016400-18	0009730-65	0016303.95	09
		16 04-89	0008317.36	0012346.74	0016352-07	0009682.54	0016352.07	03
		52 06.49 52 07.49		0010326.04	0017843.54	0007589.67	0012888.00	09 09
		52 08-49		0010301-99	0017819.48 0017843.54	0007565.61	0012815.83 0012863.95	09
2131	0000 14	52 09.49	0004107.56	0010277-93	0017867.59	0007493.44	0012888.00	09
		6 52 10.49 5 31 46 49		0010301.98	0017747.31	0007565.61	0012815.83	09
		5 31 46.68 5 31 47.68			0007258.90 0007403.23	0001888.40	0003939.17 0004035.39	09 09
2100	0010 1	5 31 48.68	0000018-04	0003037.07	0007403.23	0001936.51	0004035.39	09
		31 49-68		0003109-24	0007499.46	0001984.62	0004131.62	09
		5 32 49.18 5 32 50.18		0004191.76	0009159.32 0009183.38	0002850.64	0005526.87 0005574.98	.09 09
		32 51.18		0004239.87	0009183.38	0002970.92	0005574.98	09
		34 42.66		0007198.76	0013537.51	0005208.12	0009279.60	09
		5 36 43.66 5 36 06.02		0007270.93	0013537:-51 0017747-31	0005280.29 0007493.44	0009231.49 0012751.78	09 09
		36 07.02		0010109.53	0017771-37	0007493-44	0012791.78	09
		38 03-12		0013092:48	0021933.06	0009730.65	0016231.79	09
		5 38 04.12 5 40 32.15		0013164.65	0021957.11 0026166.91	0009778.76	0016279.90 0019840.19	09 09
		5 40 33.15		0016075.42	0026118.80	0012040.03	0019816.13	09
				ELE	ENT STRESS			
				CEC.	- J			
10	REC PT	RATE	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
. 1104	400	01	`	-				
TEST	COND H	R/HN/SEC	RÒ111A	R0112A	R0113A	R90111A	R90112A	GP
2150	0000 1	5 40 34.25	0007475.40·	0016099248	0026166.91	0012112-20	0019864-24	09
2150	-0000 1	5 40 35.15	0007499.46	0016099.48	0026070.69	0012088-14	0019768.02	09
		5 40 36.15 5 45 59.61		0016099-48	0026166.91	0012064.08	0019772.07	09
		5 46 00.61		0017542.84	0028139.51 0026091.39	0013194.72 0013218.77	0021379.77 0021475.99	09 09
2155	0000 1	5 46 01.61	0008317.35	CO17518.78	0028139.51	0013218.77	0021403.83	09
		5 46 02.61 5 46 03.61		0017494.73	0028091.39	0013170-66	0021427.88	09
		5 29 34.86		0017470.67	0028139.51 0029871.54	0013170.66	0021427.88 0022630.68	09 09
2160	0000 16	5 29 35.86	0008894.71	0018745.64	0029871.54	0014229012	0022678.79	09
		29 36.86		0018745.64	0029823.43	0014205.07	0022678.79	09
		5 29 37.86 5 29 38.86		0018745.64 0018721.58	0029871.54 0029871.54	0014205.07	0022678.79 0022654.74	09 09
2165	0000 16	33 04.12	0009784.78	0020213.05	0031940.35	0015576.26	0024146.21	09
		5 33 05.12 5 33 06 12		0020237.11	0031988.47	0015600.32	0024098-10	09
		5 33 06.12 5 33 07.12		0020213.05	0031988.47 0031988.47	0015648.43	0024146-21 0024074-04	09 09
2165	0000 1	33 08.12	0009784.78	0020261.17	0031988,47	0015648.43	0024122.15	09
		39 31.91		0004360.15	0009279.60	0003187-42	0005382-53	09
		5 39 32 . 91 5 39 33.91		0004360.15	0009255.55 0009327.71	0003163.36	0005358.47 0005430.64	09 09
2111	0000 16	39 34.91	0000595.39	0004336.09	0009255.55	0003115-25	0005382.53	09
2111	0000 16	39 35.91		0004336,09	0009279,60	0003163.36	0005406.59	09
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11/06/69 CONJUGATE STRUCTURE TEST COND 2

ID REC PT RATE 1106 400 01

	OND HR/MN/SEC	R90113A	P177121A	P177122A	P180131A	P180132A	GP
2000 00	000 09 50 06.68	0000024.06	0000006.00=	0000042.02-	0000024-05-	0000018-03-	10
	000 11 19 12.32	0003175.39	0001533.57	0005081.83		0001798-18-	10
	000 11 19 13.32	0003199.45	0001533.57	0005129.94		0001701.95-	10
	000 11 19 14.32	0003223.50	0001555.57	0005129.94		0001750-06-	10
	000 11 19 15.32	0003271.62	0001533.57	0005057.77		0001750.06-	10
	000 11 19 16.32	0003199.45	0001509.51	0005105.89		0001774.12-	10
	000 13 02 50.73	0008227.15	0007403.23	0016893.33		0005334-41-	10
	000 13 02 50.73	0008299.32	0007427.29	0016845.21		0005310-25-	10
	000 13 02 52.73	9008275.26		0016773.05		0005334.41-	10
	000 13 02 52.73	0008251-21	0007451.35 0007355.12	0016773.05		0005334.41~	10
	000 13 02 54.73	0008275.26	0007355.12	0016845.21		0005334.41-	10
	000 13 07 26.70	0013230.80	0010771.07	0027502.02		0005327.70-	10
	000 13 07 27,70		0010819:19	0027453.91		0009327.70-	10
	000 13 07 28.70	0013182:69	0010747.02	0027502.02		0007327-10	10
	000 13 07 29.70	0013182.69	0010819.19	0027405.80		0009351.76-	10
	000 13 07 30.70		0.010771-07	0027405.80		0009351.76-	10
	000 14 11 14.22	0017753.33	0012406.88	0035681.06		0013441.28-	10
	000 14 11 15:22	0017753.33	0012406.88	0035729.17		0013465.34-	iŏ
	000 14 11 16.22	0017681.16	0012382.83	0035632.95		0013441-28-	10
	000 14 11 17.22	0017681-16	0012406.88		0010151.62-		10
	000 14 11 18.22	0017657.10	0012406.88			0013489-39-	10
	000 14 15 59.87	0022179.63	0013441.29	0042801.64		0017843-53-	io
	000 14 16 00.89	0022179.63	0013417.23	0042801-64		0017843-53-	10
	000 14 16 01.89	0022179.63	0013369.12	0042801.64		0017795-42-	10
	000 14 16 02.89	0022179.63	0013369.12	0042801.64		0017747.30-	10
	000 14 16 03.89	0022179.63	0013417.23	0042501-54		0017795-42-	io
	000 14 16 04.89	0022179.63	0013369-12	0042753.53		.0017795-42-	10
	000 14 52 06.49	0017657.10	0012310.66	0035729.17		0013513.45-	10
	000 14 52 07.49	0017681.16	0012334.71	0035681.06		0013561-56-	10
	000 14 52 08.49	0017657.10	0012334.71	0035681.06		0013561.56-	10
	000 14 52 09.49	0017681.16	0012238.49	0035681.06		0013489.39-	10
	000 14 52 10.49	0017633.05	0012262.55	0035632.95		0013561.56-	10
	010 15 31 46.68	0005893.72	0004853.30	0011552.89		0003939-16-	10
	010 15 31 47.68	0005917.78	0004973.58	0011673.17		0003987-27-	10
	010 15 31 48.68	0006014.00	0005045.75	0011889.68		0004011.33-	10
	010 15 31 49.68	0005062-11	0005141.97	0012034.01		0004059.44-	10
	010 15 32 49.18	0007986.59	0007210.79	0016508.43		0005454269-	10
	010 15 32 50.18	0008010.65	0007186.73	0016628.71		0005478.74~	10
	010 15 32 51.18	0008058.76	0007162.67			0005526.86-	10
	020 15 34 42.66		0010506.46	0027020.90		0009327-70-	10
	020 15 34 43.66	0012845.90	0010530.51	0027020.90		0009375.82-	10
	030 15 36 06.02		0012238.49	0035488-61		0013441-28-	10
	030 15 36 07.02		UU17286.60	0035488.61		0013417.22-	10
	040 15 38 03-12		0013296.95	0042897.86		0017843.53-	10
	040 15 38 04.12		OC13321.01	0042945.97		0017795-42-	10
	000 15 40 32-15			0049489.21		0022606.62-	
		(0026605.94	UU171366YL				10
			001413E.91 0014187.03				10 10
	000 15 40 33.15		0014187.03	0049585.43		0022606:62-	
			0014187.03	0049585.43			
				0049585.43			
2150 0	1000 15 40 33 +1 5	0026702.16	0014187.03 ELEH	0049585.43 ENT STRESS			
2150 O	9000 15 40 33415 SEC P7 RATE		0014187.03 ELEH	0049585.43 ENT STRESS			
2150 0	1000 15 40 33 +1 5	0026702.16	0014187.03 ELEH	0049585.43 ENT STRESS			
2150 0 ID R 1106	1900 15 40 33115 EC P7 RATE 400 01	0026702.16	0014187.03 ELEM E STRUCTURE	0049585.43 ENT STRESS TEST COND 2	0014481.70-	0322606;62-	
2150 0 ID R 1106	9000 15 40 33415 SEC P7 RATE	0026702.16	0014187.03 ELEH	0049585.43 ENT STRESS		0322606;62-	
2150 0 ID R 1106 TEST C	000 15 40 33:15 EC P7 RATE 400 01 GND HR/MN/SEC	0026702.16 11/06/69 CONJUGAT R90113A	0014187.03 ELEMI E STRUCTURE : P177121A	0049585.43 ENT STRESS TEST COND 2 P177122A	0014481.70- P180131A	0322606:62-	10 GP
2150 0 ID R 1106 TEST C 2150 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 60 34-15	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05	0014187.03 ELEHI E STRUCTURE : P177121A 0014187.03	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43	0014481.70- P180131A 0014481.70-	0322606:62- P180132A 0022510.39-	10 GP 10
ID R 1106 TEST C 2150 0 2150 0	EC PT RATE 400 01 GND HR/HN/SEC 1000 15 40 34-15 1000 15 40 35-15	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94	0014187.03 ELEHI E STRUCTURE 1 P177121A 0014187.03 0014114.86	0049585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43	P180131A 0014481.70- 0014385.48-	P180132A 0022510.39~ 0022606.62~	10 GP 10 10
ID R 1106 TEST C 2150 0 2150 0	EC P7 RATE 400 01 GND HR/NN/SEC 1000 15 40 34.15 1000 15 40 35.15 000 15 40 36.15	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014187.03	0049585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43	P180131A 0014481.70- 0014385.48- 0014385-48-	P180132A 0022510.39- 0022506.62- 0022558.50-	6P 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0	EC P7 RATE 400 01 GND HR/NN/SEC 000 15 40 34.15 000 15 40 35.15 000 15 40 36.15	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014187.03 0014595.98	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0049585.43	P180131A 0014481-70- 0014385-48- 0015155-27-	P180132A 0022510.39~ 0022566.62- 002584.38~	10 GP 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0	EC PT RATE 400 01 GND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 40 36-15 1000 15 40 36-16	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026722.86 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014187.03 0014595.98 0014571.92	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052568.37 0052664.60	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27-	P180132A 0022510.39- 0022606.62- 0025084.38- 0025132.50-	10 GP 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0	EC PT RATE 400 01 CND HR/NN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 40 36-16 1000 15 46 00-16	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014595.98 0014571.92 0014595.98	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052564.60	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27-	P180132A 0022510.39~ 0022606.62~ 0022584.38~ 0025132.50~ 0025132.50~	GP 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0	EC P7 RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-16 1000 15 40 36-16 1000 15 46 01-61 1000 15 46 01-61	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028770.98 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052568.37 0052664.60 0052568.37	P180131A 0014481.70- 0014385.48- 0014385.27- 0015155.27- 0015155.27- 0015131.21-	P180132A 0022510.39~ 0022506.62~ 0022582.50~ 0025132.50~ 0025132.50~ 0025132.50~	GP 10 10 10 10 10 10
2150 0 ID R 1106 TEST C 2150 0 2155 0 2155 0 2155 0 2155 0	EC P7 RATE 400 01 GND HR/NN/SEC 1000 15 40 34.15 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 40 00.61 1000 15 46 00.61 1000 15 46 01.61 1000 15 46 02.61 1000 15 46 03.61	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028722.86 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98 0014595.98	0049585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43 0052568.37 0052664.60 0052568.37	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015131.21- 0015107.16-	P180132A 0022510.39- 0022506.62- 002558-50- 0025132-50- 0025132-50- 0025084-38- 0025084-38-	GP 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0	EC P7 RATE 400 01 GND HR/MN/SEC 1000 15 40 34.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 46 00.61 1000 15 46 00.61 1000 15 46 02.61 1000 15 46 03.61 1000 15 46 03.61 1000 15 46 03.61	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028770.98 0028722.86 0028722.86 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014571.92 0014595.98 0014595.98 0014595.98	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052568.37 0052664.60 0052568.37 0052568.37	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 00151307.16- 0015538.28-	P180132A 0022510.39- 0022508.38- 0025132.50- 0025132.50- 0025084.38- 0025084.38- 0027345.65-	GP 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 46 00-16 1000 15 46 00-16 1000 15 46 00-16 1000 15 46 00-16 1000 15 46 00-16 1000 15 46 03-6 1000 15 49 34-86 1000 16 29 35-86	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028772.86 0028772.86 0028772.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014595.98 0014571.92 0014595.98 0014595.98 0014595.98	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0059564.60 0052564.60 0052568.37 0052568.37 0052568.42	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015131.21- 0015588.28- 0015540.17-	P180132A 0022510.39- 0022506.62- 0022584.38- 0025132.50- 0025132.50- 0025084.38- 0025084.38- 0027345.65-	GP 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 35.15 1000 15 40 35.15 1000 15 40 36.16 1000 15 40 36.16 1000 15 46 00.61 1000 15 46 02.61 1000 15 46 02.61 1000 16 29 35.86 1000 16 29 35.86 1000 16 29 36.86	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028722.86 0028770.98 0028722.86 0028722.86 0028722.86	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014575.98 0014575.98 0014595.98 0014595.98 0014595.98 0014908.71 0014956.82	00+9585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052568.37 0052664.60 0052568.37 00552668.37 0055166.42 0055166.42	P180131A 0014481.70- 0014385.48- 0014385.27- 0015155.27- 0015155.27- 0015131.21- 0015107.16- 0015540.17- 0015588.28-	P180132A 0022510.39- 0022506.62- 0022588.50- 0025132.50- 0025132.50- 0025132.50- 0025084.38- 0027345.65- 0027345.65-	GP 10 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0	EC P7 RATE 400 01 GND HR/NN/SEC 1000 15 40 34.15 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.16 1000 15 46 00.61 1000 15 46 00.61 1000 15 46 02.61 1000 15 46 03.61 1000 16 29 34.86 1000 16 29 35.86 1000 16 29 37.86	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028722.86 0028722.86 0030647.34 0030647.34	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98 0014595.98 0014595.98 0014956.82 0014956.82	0049585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43 0052568.37 0052664.60 0052568.37 0052568.37 0055166.42 0055166.42	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015131.21- 0015538.28- 0015548.28- 0015518.28-	P180132A 0022510.39~ 0022506.62~ 0025582.50~ 0025132.50~ 0025132.50~ 0025084.38~ 0027345.65~ 0027345.65~ 0027345.65~ 0027297.54~	GP 10 10 10 10 10 10 10 10 10
2150 0 ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2150 0 2150 0 2150 0 2160 0 2160 0	EC P7 RATE 400 01 GND HR/NN/SEC 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 46 00.61 1000 15 46 00.61 1000 15 46 02.61 1000 15 46 03.61 1000 16 29 34.86 1000 16 29 35.86 1000 16 29 36.86 1000 16 29 36.86 1000 16 29 37.86 1000 16 29 38.86	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026722.86 0028722.86 0028722.86 0028722.86 002874.34 0030647.34 0030647.34	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014597.99 0014595.98 0014595.98 0014595.98 0014595.98 0014956.82 0014956.82 0014908.71	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0055166.42 0055166.42 0055166.42	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015131.21- 0015131.21- 0015540.17- 0015588.28- 0015516.11- 0015516.11-	P180132A 0022510.39~ 0022606.62- 0025584.38~ 0025132.50~ 0025132.50~ 0025084.38~ 0027345.65~ 0027345.65~ 0027345.65~ 0027345.65~	GP 10 10 10 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0 2160 0	EC P7 RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 46 00-61 1000 15 46 00-61 1000 15 46 02-61 1000 15 46 03-61 1000 16 29 34-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86 1000 16 29 37-86	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028772.86 0028772.86 0028772.86 0030647.34 0030647.34 0030647.34 0030647.34	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014571.92 0014571.92 0014595.98 0014571.92 0014595.98 0014595.98 0014595.98 0014595.98 0014956.82 0014956.82 0014956.82 0014958.71 0015389.83	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 00595864.60 0052564.60 0052568.37 0052568.37 0052568.37 0052568.37 0052566.42 0055166.42 0055166.42 0055166.42	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015107.16- 0015588.28- 0015588.28- 0015540.17- 0015588.28- 0015540.17- 0013206.73-	P180132A 0022510.39- 0022606.62- 0022588.50- 0025132.50- 0025132.50- 0025084.38- 0025084.38- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0027345.65-	GP 10 10 10 10 10 10 10 10 10 10 10
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ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0 2160 0 2160 0 2160 0 2160 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 40 36-15 1000 15 46 00-61 1000 15 46 00-61 1000 15 46 02-61 1000 15 40 03-61 1000 16 29 35-86 1000 16 29 35-86 1000 16 29 36-86 1000 16 29 36-86 1000 16 33 04-12 1000 16 33 05-12 1000 16 33 06-12 1000 16 33 06-12 1000 16 33 07-12 1000 17 33 08-12	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028722.86 0028770.98 0028722.86 0028772.36 0030647.34 0030647.34 0030647.34 0030647.34 0030659.46 0032860.50 0032860.50 0032860.50	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014187.03 0014595.98 0014595.98 0014595.98 0014596.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82	0049585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0059585.43 00595864.60 0052564.60 0052568.37 0052564.60 0052568.37 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0058245.59 0058245.59	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015155.27- 0015131.21- 0015588.28- 0015540.17- 0015588.28- 0015540.17- 0013206.73- 0013182.68- 0013206.73- 0013158.62-	P180132A 0022510.39- 0022606.62- 0022558.50- 0025132.50- 0025132.50- 0025084.38- 0025084.38- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0030521.04- 0030569.15- 0030665.38- 0030617.26-	10 6P 10 10 10 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2155 0 2160 0 2160 0 2160 0 2165 0 2165 0 2165 0 2165 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 35.15 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 40 00.61 1000 15 46 01.61 1000 15 46 02.61 1000 16 29 35.86 1000 16 29 35.86 1000 16 29 36.86 1000 16 29 37.86 1000 16 33 05.12 1000 16 33 05.12 1000 16 33 07.12 1000 16 33 07.12 1000 16 33 07.12 1000 16 33 07.12 1000 16 33 07.12 1000 16 33 07.12	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0028722.86 0028722.86 0028722.86 0028722.86 0030647.34 0030647.34 0030647.34 0030695.46 0032860.50 0032908.61 0032912.38 0032612.38	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98 0014595.98 0014595.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0015365.77 0015349.83	00+9585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43 0059585.43 0052568.37 0052568.37 0052568.37 0052568.37 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0058245.59 0058245.59 0058245.59	P180131A 0014481.70- 0014385.48- 0014385.48- 0015155.27- 0015155.27- 0015131.21- 0015107.16- 0015588.28- 0015540.17- 0015588.28- 0015516.11- 0015588.28- 0015516.17- 0013206.73- 0013206.73- 0013206.73- 0013158.62- 0001683.92	P180132A 0022510.39- 0022506.62- 00225084.38- 0025132.50- 0025132.50- 0025132.50- 0025384.38- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0030569.15- 0030665.38- 0030667.26- 00305526.86-	10 10 10 10 10 10 10 10 10 10 10 10 10 1
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2160 0 2160 0 2160 0 2160 0 2160 0 2165 0 2165 0 2165 0 2165 0	EC P7 RATE 400 01 CND HR/NN/SEC 1000 15 40 34.15 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 40 00.61 1000 15 46 01.61 1000 15 46 02.61 1000 16 29 34.86 1000 16 29 35.86 1000 16 29 36.86 1000 16 29 37.86 1000 16 29 37.86 1000 16 33 04.12 1000 16 33 06.12 1000 16 33 07.12 1000 16 39 31.91 1000 16 39 32.91	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 00286722.86 0028722.86 0028722.86 0028722.86 0030647.34 0030647.34 0030647.34 0030655.46 0032860.50 0032812.38 0032812.38 0032812.38 0032812.38 0032812.38	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014575.98 0014571.92 0014595.98 0014595.98 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0015389.83 0015341.71 0015365.77 0015413.88 0015341.71 0015365.77	0049585.43 ENT STRESS TEST COND 2 P1.77122A 0049585.43 0049585.43 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0052566.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0058245.59 0058245.59 0058245.59	P180131A 0014481.70- 0014385.48- 0014385.48- 0015155.27- 0015155.27- 0015155.27- 0015131.21- 0015588.28- 0015540.17- 0015588.28- 001556.11- 00*75540.17- 0013206.73- 0013206.73- 0013206.73- 0013158.68- 0019206.73- 001358.68- 0019206.73-	P180132A 0022510.39~ 0022506.62~ 0022582.50~ 0025084.38~ 0025132.50~ 0025084.38~ 0027345.65~ 0027345.65~ 0027345.65~ 0027345.65~ 0027345.65~ 0030521.64~ 003059.15~ 0030617.26~ 003065.38~ 0030517.26~ 0030526.86~ 0005526.86~	GP 10 10 10 10 10 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2155 0 2156 0 2160 0 2160 0 2160 0 2160 0 2160 0 2160 0 2165 0 2165 0 2165 0 2165 0 2165 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 40 36-15 1000 15 46 01-61 1000 15 46 02-61 1000 15 46 02-61 1000 15 46 03-61 1000 16 29 36-86 1000 16 29 36-86 1000 16 29 37-86 1000 16 33 05-12 1000 16 33 05-12 1000 16 33 05-12 1000 16 33 08-12 1000 16 33 08-12 1000 16 39 31-91 1000 16 39 31-91 1000 16 39 32-91 1000 16 39 33-91	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028722.86 0028722.86 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0032800.50 0032800.50 0032812.38 0032612.38 0032612.38 0008419.60	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98 0014595.98 0014595.98 0014596.82 0014956.82	00+9585.43 ENT STRESS TEST COND 2 P1.77122A 004.9585.43 004.9585.43 .0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0055166.42 0057168.37	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015155.27- 0015131.21- 0015538.28- 0015540.17- 0015588.28- 0015516.11- 00↑5540.17- 0013206.73- 0013206.73- 0013182.68- 00159-86- 001683.92 0001659.86- 0001611.75	P180132A 0022510.39- 0022606.62- 0022558-50- 0025132.50- 0025132.50- 0025084.38- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0030521.04- 0030599.15- 0030617.26- 0030617.26- 0030526.86- 0005526.86- 0005502.80-	GP 10 10 10 10 10 10 10 10 10 10 10 10 10
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2150 0 2160 0 2160 0 2160 0 2160 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2161 0 2111 0 2111 0	EC P7 RATE 400 01 CND HR/MN/SEC 1000 15 40 35.15 1000 15 40 35.15 1000 15 40 36.15 1000 15 40 36.15 1000 15 46 00.61 1000 15 46 00.61 1000 15 46 02.61 1000 15 46 03.61 1000 16 29 35.86 1000 16 29 36.86 1000 16 29 36.86 1000 16 29 36.86 1000 16 33 04.12 1000 16 33 04.12 1000 16 33 06.12 1000 16 33 07.12 1000 16 33 08.12 1000 16 39 31.91 1000 16 39 32.91 1000 16 39 33.91 1000 16 39 33.91	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028772.86 0028772.86 0038772.86 0030647.34 0030647.34 0030647.34 0030647.34 003085.46 0032860.50 0032860.50 0032860.50 0032908.61 0032812.38 0038419.60 0003271.49 0008419.60 0008395.54	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014114.86 0014187.03 0014595.98 0014595.98 0014595.98 0014596.82 0014956.82 0014956.82 0014956.82 0014956.82 0014956.82 0015365.77 0015389.83 0015365.77 0015341.71 0015341.71 0015341.71 0015341.71	00+9585.43 ENT STRESS TEST COND 2 P177122A 0049585.43 0049585.43 0049585.43 00595864.60 0052568.37 0052564.60 0052568.37 0052566.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 0055166.42 005166.42 005166.42 0058245.59 0058245.59 0058245.59 0058245.59 0058245.59 0058149.37 0017182.00 0017230.11	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015155.27- 0015131.21- 0015107.16- 0015588.28- 0015540.17- 0015588.28- 0015540.17- 0013206.73- 0013182.68- 0015906.73- 0013182.68- 0015906.73- 0013182.68- 001659.86-	P180132A 0022510.39- 0022606.62- 0022558.50- 0025132.50- 0025132.50- 0025132.50- 0025132.50- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0030617.26- 00306523.80- 0005526.86- 0005526.86- 0005526.86-	10 10 10 10 10 10 10 10 10 10 10 10 10 1
ID R 1106 TEST C 2150 0 2150 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2155 0 2150 0 2160 0 2160 0 2160 0 2160 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2165 0 2161 0 2111 0 2111 0	EC PT RATE 400 01 CND HR/MN/SEC 1000 15 40 34-15 1000 15 40 35-15 1000 15 40 36-15 1000 15 40 36-15 1000 15 46 01-61 1000 15 46 02-61 1000 15 46 02-61 1000 15 46 03-61 1000 16 29 36-86 1000 16 29 36-86 1000 16 29 37-86 1000 16 33 05-12 1000 16 33 05-12 1000 16 33 05-12 1000 16 33 08-12 1000 16 33 08-12 1000 16 39 31-91 1000 16 39 31-91 1000 16 39 32-91 1000 16 39 33-91	0026702.16 11/06/69 CONJUGAT R90113A 0026654.05 0026605.94 0026605.94 0028722.86 0028722.86 0028722.86 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0030647.34 0032800.50 0032800.50 0032812.38 0032612.38 0032612.38 0008419.60	0014187.03 ELEMI E STRUCTURE P177121A 0014187.03 0014187.03 0014595.98 0014595.98 0014595.98 0014595.98 0014595.98 0014596.82 0014956.82	00+9585.43 ENT STRESS TEST COND 2 P1.77122A 004.9585.43 004.9585.43 .0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0052568.37 0055166.42 0057168.37	P180131A 0014481.70- 0014385.48- 0015155.27- 0015155.27- 0015155.27- 0015131.21- 0015538.28- 0015540.17- 0015588.28- 0015516.11- 00↑5540.17- 0013206.73- 0013206.73- 0013182.68- 00159-86- 001683.92 0001659.86- 0001611.75	P180132A 0022510.39- 0022606.62- 0022558-50- 0025132.50- 0025132.50- 0025084.38- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0027345.65- 0030521.04- 0030599.15- 0030617.26- 0030617.26- 0030526.86- 0005526.86- 0005502.80-	GP 10 10 10 10 10 10 10 10 10 10 10 10 10

ELEHENT STRESS

IÙ REC PF RÂTE 1106 400 01	11/06/69 CUNJUGATE	STRUCTURE	TEST COND 2			
TEST COND HR/HN/SEC	P00618	P0062B	P1800618	P1800626	P2081B	GP
2000 0007 09 50 06.68 2100 0000 11 19 12.32 2100 0000 11 19 13.32 2100 0000 11 19 14.32 2100 0000 11 19 16.32 2100 0000 11 19 16.32 2100 0000 13 02 50.73 2110 0000 13 02 50.73 2110 0000 13 02 53.73 2110 0000 13 02 54.73 2110 0000 13 02 54.73 2110 0000 13 02 54.73 2110 0000 13 07 27.70 2120 0000 13 07 27.70 2120 0000 13 07 27.70 2120 0000 13 07 27.70 2120 0000 13 07 29.70 2120 0000 13 07 30.70 2120 0000 13 07 30.70 2120 0000 14 11 14.22 2130 0000 14 11 15.22 2130 0000 14 11 15.22 2130 0000 14 11 15.22 2130 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 52 06.49 2131 0000 14 52 07.49 2131 0000 14 52 09.49 2131 0000 14 52 09.49 2131 0000 14 52 09.49 2131 0000 14 52 09.49 2131 0000 15 31 48.68 2100 0010 15 31 47.68 2100 0010 15 31 47.68 2100 0010 15 32 49.18 2100 0010 15 32 49.18 2100 0010 15 32 49.18 2100 0020 15 34 42.66 2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0020 15 34 43.66	0000030.07 000847.97 000847.97 000847.97 000847.97 000872.03 000872.03 000799.86 000872.03 000799.86 000872.03 000799.86 000872.03 000799.86 000847.97 000679.58 0000679.58 0000751.75 0000703.64 0000703.64 000078.18 000078.18 000078.18 0000126.29 000126.29 000018.03 000054.13 000006.01 000030.07 000018.03 000054.13 0005851.62 0005851.62 0005851.62 0005851.62 0005853.68 000112.59 001088.53 001088.53 001088.53 0001208.81 0001208.81 0001184.76 0001184.76	0000034.07- 0000420.98 0000469.09 0000445.04 0000469.09 0001022.38 0001022.38 0001022.38 0001022.38 0001046.44 0001792.17 0001768.12 0001792.17 0001768.12 0001792.17 0001768.12 0002537.91 0002586.02 0002610.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0002561.08 0003379.87 0003331.76 0003331.76 0003331.76 0003307.70 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 0001888.40 00018578.04 0000578.04 0000578.04	P1800618 0000012.02- 0000613.43 0000685.60 0000661.54 0000613.43 0002201.12 0002201.12 0002201.12 0002273.29 0002922.80 0002946.86 0003644.48 0003668.54 0003668.54 0003644.48 0003692.54 0003644.48 0003692.54 0003644.48 0003692.54 0003644.48 0003692.55 0002393.57 0002393.57		P30818 0.30018.03- 0000138.31- 0000114.26- 0000152.37- 0000114.26- 0000138.31- 0000715.66- 0000643.49- 0000667.54- 000176.78- 000172.72- 0001750.06- 000172.72- 0001750.06- 000172.72- 0001750.06- 000172.72- 0001750.06- 000172.72- 0001750.06- 000172.72- 000178.18- 000174.12- 0001726.01- 0002375.52- 0002327.41- 0002327.41- 0002327.41- 0002327.41- 0002327.41- 0002327.41- 0002327.41- 0002327.41- 0003571.32- 0000378.87- 0000378.87- 0000354.82- 0000499.15- 0000547.26- 0001124.61- 0001100.55- 0001124.61- 00011629.78- 0001629.78-	GP 11 11 11 11 11 11 11 11 11 11 11 11 11
2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 04.12	0000559.30 0000222.52 0000198.46	0002393.57 0003163.36 0003235.53	0003836.93	0003969.24	0001053.84-	11
2150 0000 15 40 32.15 2150 0000 15 40 33.15	0000186.42- 0000162.37-	0004053-44	0003716.65 0003740.71	0004642.81 0004714.98	0002880.70- 0002904.75-	11 11
		ELĒI			-	
ID REC.PT RATE 1106 400 01	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
TEST COND HR/MH/SEC 2150 0000 15 40 34.15	P0061B 0000186:424	P00628	P1800618	P1800628	P0081B	GP 11
2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 46 00.61 2155 0000 15 46 01.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0050 15 46 03.61 2160 0000 16 29 35.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2111 0000 16 39 31.91 2111 0000 16 39 33.91	0000138.31- 0000162.37- 0000451.04- 0000402.93- 0000402.93- 0000571.32- 0000595.38-	0004101.55 0004534.56 0004538.67 0004558.61 0004558.61 0004991.62 0004991.62 0004991.62 0005496.80 0005496.80	00(3812.88 00(3788.82 00(3716.65 0003740.71 0003716.65 0003740.71 0003403.92 0003379.87 0003555.81 0003355.81 0003307.70 0003307.70 0003307.70 0003307.70 0003307.70	0004763.09 0004666.86 0005003.65 0005027.70 0005051.76 0005051.76 0005364.49 0005388.54 0005388.54 0005388.54 0005388.54 0005749.38 0005773.44 0005701.27 0005701.27 0005773.44	0002904.75- 0002832.58- 0003193.42- 0003169.37- 0003169.37- 0003169.37- 0003482.10- 0003433.98- 0003433.98- 0003458.04- 0003482.10- 0003818.88- 0003842.94- 0003794.82- 0003794.82- 00057712- 000523.21- 000595.38-	
2111 0000 16 39 33.91 2111 0000 16 39 34.91 2111 0000 16 39 35.91	0001232.87 0001296.93 0001232.87	0000926.16 0000902.10 0000974.27	0002321.40 0002369.52 0002369.52	0002405.60 0002429.66 0002405.60	0000595.38- 0000571.32- 0000547.26-	1) 11 11

ID KEC PT RATE 1106 400 01	11/06/69 CONJUGATO	E STRUCTORE 1	rest cano 2			
TEST COND HR/HN/SEC	P0082B	P180081B	P1800828	L112108	R0111B	GP
	0000054.12- 0000354.83 0000354.83 0000378.88 0000354.83 0000354.83 0001798.19 0001822.24 0001778.19 0001870.35 0003361.83 0003361.83 0003361.83 0003361.83 0003361.83 0003361.83 0003361.83 0003361.83 0003861.83 0004805.19 0004761.13 0004805.19 0004761.13 0004829.24 0006320.71 0006320.71 0006320.71 0006272.60 0006272.60 00062741.97 0005190.08 0005141.97 0005190.08 0005141.97 0005190.08 0005141.97	F180081B 0000030.06- 0000366.84- 0000318.73- 0000366.84- 0000390.90- 0000823.91- 0000823.91- 0000823.91- 0000823.91- 0000823.91- 0000823.91- 0001305.03- 0001377.20- 0001377.20- 0001377.20- 0001823.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001882.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0001892.37- 0000607.40- 0000559.29- 0000607.40- 0000799.85-	0.00030.06- 0000138.32 0000186.43 0000186.43 0000186.43 0000186.43 0000186.43 0001293.01 0001317.07 0001293.01 0001317.07 0002543.92 0002543.92 0002543.92 0002592.03 0002519.87 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003915.11 0003939.17 0005574.98 0005574.98 0005599.03 0005574.98 0005599.03 0005599.03 0005599.03 0005599.03 0005599.03 0005599.03 0005599.03	0000024.06 0000048.10- 0000024.05- 0000024.05- 0000024.05- 0000024.05- 0000096.21- 0000168.38- 000168.38- 000168.38- 000168.38- 000168.38- 000168.38- 000168.38- 000048.94- 0000468.94- 0000408.94- 0000577.33- 000555.17- 000529.22- 000577.33- 000557.33- 000553.28- 000577.33- 000553.28- 000577.33- 000553.28- 000598.28- 000408.95 000408.95 000408.95 000408.95	0000072.16- 0001010.34- 0001010.34- 0000986.29- 0001010.34- 000134.40- 0001395.24- 0001347.13- 0001371.18- 0001371.18- 0001371.20- 001659.85- 001732.02- 001659.85- 001467.41- 001491.46- 001467.41- 001515.52- 0004907.41- 0001515.52- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0004907.41- 0003175.38- 0003223.49- 0003223.49- 00035360.28- 00035360.28-	12 12 12 12 12 12 12 12 12 12 12 12 12 1
2100 0010 15 32 51-38 2100 0020 15 34 42-66 2100 0020 15 36 43-66 2100 0030 15 36 06-02 2100 0030 15 36 07-02 2100 0040 15 38 03-12 2100 0040 15 38 04-12 2150 0000 15 40 32-15 2150 0000 15 40 33-15	0001677.91 0003073.15 0003073.15 0004564.63 0004588.68 0006128.27 0006125.32	0000799.85- 0001353.14- 0001353.14- 0001882.37- 0001978.60- 0002411.60- 0002435.66- 0002988.95- 0003061.12-	0001293.01 0002495.81 0002519.87 0003915.11 0003891.06 0005574.98 0005550.92 0007307.01 0007379.18	0000216.49- 0000384.89- 0000457.05- 0000433.00- 0000433.00- 0000433.00- 0000433.00-	0003536.22- 0004281.96- 0004185.73- 0004815.73- 0004811.19- 0005340.42- 0005845.60- 0005821.54-	12 12 12 12 12 12 12 12
TEST COND HR/HN/SEC	P0082B	P18Ŏ081B	P180082B	L112108	R01118	GP .
2150 0000 15 40 34.12 2150 0000 15 40 35.12 2150 0000 15 40 36.12 2155 0000 15 45 59.61 2155 0000 15 46 00.62 2155 0000 15 46 02.62 2155 0000 15 46 02.62 2155 0000 15 46 03.63 2160 0000 16 29 34.62 2160 0000 16 29 36.62 2160 0000 16 29 36.62 2160 0000 16 33 36.63 2165 0000 16 33 05.13 2165 0000 16 33 05.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 33 07.13 2165 0000 16 39 31.93 2111 0000 16 39 33.93 2111 0000 16 39 33.93 2111 0000 16 39 33.93 2111 0000 16 39 33.93	0007812.19 0007884.35 0008606.03 0008630.09 0008630.09 0008630.09 0009351.77 0009351.77 0009351.77 0009351.77 0010193.73 0010289.95 0010217.79 0010289.95 0010750.07 0001774.13	0000823.91-	0007403.23 0007355.12 0008365.47 0008365.47 0008365.47 0008365.47 0009039.04 0009111.21 0009087.15 0009087.15 0010097.51 0010049.39 0010049.39 0010097.51 0010097.51	0000433.00- 0900384.89- 0000481.11- 0000457.05- 0000505.17- 0000505.17- 0000408.94- 0000408.94- 0000433.00- 0000433.00- 0000433.00- 0000433.00- 0000438.04- 0000408.94-	0005821.54- 0005869.65- 0005845.60- 0006086.16- 0006082.10- 0006110.21- 0006278.61- 0006278.61- 0006278.61- 0006278.61- 0006254.55- 0006471.05- 000642.94- 000642.94- 000642.94- 000642.94- 000642.94- 000642.94- 0003728.67- 0003728.67- 0003704.61- 0003704.61-	12 12 12 12 12 12 12 12 12 12 12 12 12 1

ID REC PT RATE 1106 400 01	11/06/69 CONJUGATI	STRUCTURE	TEST COND 2			
TEST COND HR/MN/SEC	R0112B	R01138	R90111B	R90112B	R90113B	GP
2000 0000 09 50 06.66 2100 0000 11 19 12.32 2100 0000 11 19 13.32 2100 0000 11 19 14.32 2100 0000 11 19 15.32 2100 0000 11 19 16.32 2110 0000 13 02 50.73 2110 0000 13 02 53.73 2110 0000 13 02 53.73 2110 0000 13 02 53.73 2110 0000 13 07 25.73 2110 0000 13 07 25.73 2120 0000 13 07 27.70 2120 0000 13 07 27.70 2120 0000 13 07 27.70 2120 0000 13 07 28.70 2120 0000 13 07 28.70 2120 0000 13 07 30.70 2120 0000 14 11 14.22 2130 0000 14 11 15.22 2130 0000 14 11 16.23 2130 0000 14 11 17.22 2130 0000 14 11 16.23 2130 0000 14 16 01.85 2140 0000 14 16 02.85 2140 0000 14 16 02.85 2140 0000 14 16 03.85 2140 0000 14 16 03.85 2140 0000 14 16 03.85 2140 0000 14 16 03.85 2140 0000 14 52 06.45 2131 0000 14 52 06.45 2131 0000 14 52 06.45 2131 0000 14 52 07.45 2131 0000 14 52 08.45 2131 0000 14 52 09.45 2131 0000 14 52 09.45 2131 0000 14 52 10.45 2131 0000 15 31 46.66 2100 0010 15 31 46.66	0000030.07 0000559.30 0000559.30 0000511.19 0000511.19 0000559.30 0002122.94 0002195.11 0002195.11 0002195.11 0003734.69 0003662.53 0003710.64 0003734.69 0003662.53 0005250.22 0005274.28 0005250.22 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28 0005274.28	0000000.00 0002549.94 0002573.99 0002549.94 0002525.88 0002525.88 0006759.74 0006687.57 0006735.68 0011161.98 001113.87 001113.87 0011113.87 0011113.87 00112575.56 0015251.50 0015251.50 0015251.50 0015251.50 0015251.50 0015251.50 0020832.50 0020832.50 0020856.55 0020832.50 0020856.55 0020832.50 0020856.55 0020832.50 0020856.55 0020832.50 0020856.55	0000024.05- 0000890.06- 0000890.06- 0000890.06- 0000914.12- 0001202.79- 0001130.62- 0001130.62- 0001299.01- 0001274.96- 0001274.96- 0001274.96- 0001233.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001323.07- 0001250.90- 0001250.90- 0001299.01- 0001250.90- 0001299.01- 0000934.12- 0000962.23-	0000042.09- 0000847.97 0000823.92 0000847.97 0000823.92 0002676.23 0002770.29 0002652.17 0004552.60 0004552.60 0004552.60 0004552.60 0004552.60 0004552.60 0004552.60 0004564.01 0006188.41 0006188.41 0006188.41 0006188.41 0006188.41 0006188.41 0006188.41 0006188.41 0006188.41 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21 00077624.21	0000054-12- 0002868-54 0002856-65 0002832-59 0002832-59 0002856-65 0007571-63 0007595-68 0007595-68 0007643-79 0012166-32 0012142-27 0012190-38 0012142-27 0012166-32 0012142-27 0016279-90 0016279-90 0016255-84 0016231-79 0020321-31 002037-25 0020321-31 0016207-73 0016183-67 0016183-67 0016183-67 0016207-73 0016183-67 0016207-73 0016183-67 0016207-73 0016183-67 00165599-03 0005647-15	13 13 13 13 13 13 13 13 13 13 13 13 13 1
	0002171-05 0002243-22 0002844-62 0002868-68 0002864-62 0004504-49 0004456-37 0006116-24 0007896-38 0007896-38	0014794.44 0014890.66 0016718.98 0016815.14 0021842.85 0021842.85 0027808.74 0027808.74 0034303.86 0034303.86 0043830.03 0043878.14	0000962.23- 0001010.34- 0001058.45- 0001034.40- 0001154.68- 000122.79- 0001274.96- 0001299.01- 0001321.07- 0001371.18- 0001395.24-	0001786.16 0001810.21 0002555.95 0002555.95 0002555.95 0004360.15 0004384.21 0006068.13 0006116.24 0007727.99 0007727.99		
10 REC PT RATE 1106 400 01	: 11/06/69 CONJUĞAT	E STRUCTURE	TEST COND 2		-	
TEST COND HR/HN/SEC	R01128	R01138	R901118	R901128	Ŗ90113B	GP
2150 0000 15 40 34.12 2150 0000 15 40 36.12 2155 0000 15 45 59.66 2155 0000 15 46 00.61 2155 0000 15 46 01.61 2155 0000 15 46 02.61 2155 0000 15 46 02.61 2155 0000 16 29 34.86 2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 33 04.12 2165 0000 16 33 06.12 2165 0000 16 33 06.12 2165 0000 16 33 08.13 2165 0000 16 33 08.13 2165 0000 16 39 31.91 2111 0000 16 39 33.91 2111 0000 16 39 33.91	0009724.64 0009700.58 0010638.77 0010638.77 0010710.93 0010666.88 0011576.95 0011576.95 0011576.95 0011576.95 0011576.95 0012587.30 0012587.30 0012587.30	0043974.37 0043926.26 0043926.26 0048737.46 0048689.34 0048737.46 0059177.76 0059177.76 0059177.76 0059177.76 0059177.76 0059081.54 0067934.14 0067934.14 0067934.14 0067934.14 0067934.14 0067934.14 0067934.14 0067934.18	0001323.07- 0001299.01- 0001347.13- 0001329.01- 0001347.13- 0001347.13- 0001274.96- 0001274.96- 0001274.96- 0001299.01- 0001299.01- 0001299.01- 0001299.01- 0001299.01-	0009508.13 0009532.19 0010374.15 0010398.21 0010422.26 0010398.21 0010422.26 0011312.33 0011312.33 0011240.17 0011312.33 0011264.22 0012346.74 0012370.80 0012370.80 0012370.80 0002916.79	0024458.94 0024458.94 0026455.59 0026455.59 0026455.59 0026407.47 0028283.84 0028331.95 0028331.95 0028331.95 0028331.95 0028331.95 002831.95 0030545.11 0030545.11 0030545.11 0030545.11 0030545.11 0030545.11	13 13 13 13 13 13 13 13 13 13 13 13 13

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11/06/69 CONJUGATE STRUCTURE TEST COMD 2

P177122B

P1771218

10 REC PT 1106 400

TEST COND HR/MH/SEC

RATE 01

2000 0000 09 50 06.6	8 0000018.04 G000042.09-	0000054.12-	0000024.05~	0000006-01	14
2100 0000 11 19 12.3			0602092.86-		14
			0002165.03-		14
2100 0000 11 19 13.3					
2100 0000 11 19 14.3			0002116.92-		14
2100 0000 11 19 15.3	2 0006813.85- 0000968.25	0001497.48~	0002092.86-	0001653.84-	14
2100 0000 11 19 16.3	2 0006813.85~ 0000992.31	0001521-53-	0002058.81-	0001701.95-	14
2110 0000 13 02 50.7	3 0020549.83- 0005105.89	0005129-93-	0005965.68-	0001401-26	14
2110 0000 13 02 51.7			0005965.88-		14
					14
2110 0000 13 02 52.7			0005941.82-		
2110 0000 13 02 53.7			0005941.82-		14
2110 0000 13 02 54.7	3 0020453.60~ 0005081.83	0005129.93-	0005917.77-	0001473.43	14
2120 0000 13 07 26.7	0 0028295.86- 0009989.25	0008594.00-	0009790.78-	0004350-15	14
2120-0000 13 07 27.7			0009814.84-		14
2120 0000 13 07 28.7			0009718.61-		14
					14
2120 0000 13 07 29.7			0009814.84-		
2120 0000 13 07 30.7			0009742-67-		14
2130 0000 14 11 14.2	2 0031615.59- 0014728.29	0014523-81	0003319.72-	0010698.90-	14
2130 0000 14 11 15.2	2 0031567.48- 0014680.17	0014620.03	0003271.61-	0010795.12~	14
2130 0000 14 11 16.2	2 0031615.59- 0014704.23	0014620-03	0003271.61-	0010963-51-	14
2130 0000 14 11 17-2		0014668-15	0003319.72-		14
2130 0000 14 11 18.2		0014716.26	0003367.83-		14
2140 0000 14 15 59.8		0033191.27	0003175.38-		14
2140 0000 14 16 00.8		0033239.38	0003079.16-		14
2140 0000 14 16 01.8	9 0033107.06- 0019587.60	0033143.15	0003127.27-	J018468.98-	14
2140 0000 14 16 02.8	9 0033107.06- 0019635.71	0033383.71	0002934.82-	0018468-98-	14
2140 0000 14 16 03-8		0033528-05	0002982.93-	0018493-04-	14
2140 0000 14 16 04.8	•	0033528-05		0016517-10-	14
		0016087.45	0012292.61-	005	14
2131 0000 14 52 06-4					
2131 0000 14 52 07-4		0016159.62	0012268-55-	DOS	14
2131 0000 14 52 08.4		0016111.51	0012316.65-	DOS	14
2131 0000 14 52 09.4	9 0031663.70- 0014632.06	0016159.62	0012268.55-	DOS	14
2131 0000 14 52 10.4	9 0031663.70- 0024632.06	0016135.56	0012340.72-	DOS	14
2100 0010 15 31 46.6		0007451.35	0003367-83-	DOS	14
2100-0010 15 31 47-6		0007499.46	0003367.83-	DUS	14
2100 0010 15 31 48.6		0007547.57	0003415.94-	DOS	14
2100 0010 15 31 49:6		0007523-51	0003536.22-	DOS	14
		0008533-87	0004955.53-	DOS	14
2100 0010 15 32 49-1				005	14
2100 0010 15 32 50.1		0008533.87	0004883.36-		
2100 0010 15 32 51.1		0008557.92	0004907.41-	202	14
2100 0020 15 34 42.6	6 0027910.96- 0009556.25	0012046.04	0008275.25~	DOS	14
	0027910.96- 0009556.25 0027910.96- 0009508.13	0012046.04 0012118.21	0008275.25~	00S 00S	14 14
2100 0020 15 34 42.6	0027910.96- 0009556.25 0027910.96- 0009508.13	0012046.04	0008275.25~	DOS	14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0	0027910.96- 0009556.25 0027910.96- 0009508.13 0031567.48- 0014439.61	0012046.04 0012118.21	0008275.25~	00S 00S	14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0	06 0027910.96- 0009556.25 06 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031615.59- 0014487.73	0012046.04 0012118.21 0016135.56 0016183.67	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~	00S 00S 00S	14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1	66 0027910.96- 0009556.25 66 0027910.96- 0009508.13 02 0031567.48- 0014439.61 12 0031615.59- 0014487.73 12 0033251.40- 0019443.26	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65	0008275.25- 0008347.42- 0011787.43- 0011763.37- 0015443.94-	005 005 005 005 005	14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1	66 0027910.96- 0009556.25 66 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031615.59- 0014487.73 12 0033251.40- 0019443.26 0033203.28- 0019587.60	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~	005 005 005 005 005 005	14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1	66 0027910.96- 0009556.25 66 0027910.96- 0009508.13 12 0031567.48- 0014439.61 12 0031615.59- 0014487.75 12 0033251.40- 0019443.26 12 0033203.28- 0019587.60 15 0033828.74- 0024735.58	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1	66 0027910.96- 0009556.25 66 0027910.96- 0009508.13 12 0031567.48- 0014439.61 12 0031615.59- 0014487.75 12 0033251.40- 0019443.26 12 0033203.28- 0019587.60 15 0033828.74- 0024735.58	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~	005 005 005 005 005 005	14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1	66 0027910.96- 0009556.25 66 0027910.96- 0009508.13 12 0031567.48- 0014439.61 12 0031615.59- 0014487.75 12 0033251.40- 0019443.26 12 0033203.28- 0019587.60 15 0033828.74- 0024735.58	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031615.59- 0014487.73 02 0033251.40- 0019443.26 02 0033203.28- 0019587.60 05 0033828.74- 0024735.58 0033828.74- 0024783.69	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031615.59- 0014487.73 02 0033251.40- 0019443.26 02 0033203.28- 0019587.60 05 0033828.74- 0024735.58 0033828.74- 0024783.69	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031615.59- 0014487.73 02 0033251.40- 0019443.26 02 0033203.28- 0019587.60 05 0033828.74- 0024735.58 0033828.74- 0024783.69	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1 2150 0000 15 40 33.1	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 12 0031615.59- 0014487.73 12 0033251.40- 0019443.26 12 0033203.28- 0019587.60 15 0033828.74- 0024735.58 15 0033828.74- 0024783.69	0012046.04 0012118.21 0016135.56 0016183.67 0020898.65 0020922.71 0026551.81 0026551.81	0008275.25~ 0008347.42~ 0011787.43~ 0011763.37~ 0015443.94~ 0015492.05~ 0019244.75~	00S 00S 00S 00S 00S 00S 00S	14 14 14 14 14 14
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2100 0020 15 34 42.6 2100 0020 15 34 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1 2150 0000 15 40 33.1 TEST COND HR/MN/SEC 2150 0000 15 40 36.1 2150 0000 15 40 36.1 2150 0000 15 40 36.1 2150 0000 15 40 36.1 2150 0000 15 40 36.1 2155 0000 15 46 00.6 2155 0000 15 46 00.6 2155 0000 15 46 03.6 2155 0000 16 29 34.6 2160 0000 16 29 36.6 2160 0000 16 29 36.6 2160 0000 16 29 38.6 2160 0000 16 33 06.1 2165 0000 16 33 06.1 2165 0000 16 33 06.1 2165 0000 16 33 06.1 2165 0000 16 33 06.1 2165 0000 16 33 08.1 2111 0000 16 39 31.5 2111 0000 16 39 33.6 2111 0000 16 39 33.6 2111 0000 16 39 33.6	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031567.48- 0014487.73 02 0033251.40- 0019443.26 03 0033203.28- 0019587.60 05 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0027237.41 0033828.74- 0027189.29 01 0033828.74- 0027189.29 01 0033876.85- 0027189.29 01 0033876.85- 0027189.29 01 0033876.85- 0027354.33 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029354.33 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22	0012046.04 0012118.21 0016135.56 0016135.56 0016133.67 0020898.65 0020922.71 0026551.81 0026551.81 ENT STRESC TEST COND 2 P0131A 0026551.81 00266581.81 00266581.81 00266581.81 0026630.98 0029630.98	0008275.25~ 0008347.42~ 0011787.43~ 0011783.37~ 0015443.94~ 0015492.05~ 0019244.79~ 0019292.90~ 0019292.90~ 0021000.88~ 0021073.05~ 0021000.88~ 0021073.05~ 0021064.52~ 002256	P01318 P01318	14 14 14 14 14 14 14 14 14 14 14 14 14 1
2100 0020 15 34 42.6 2100 0020 15 36 43.6 2100 0030 15 36 06.0 2100 0030 15 36 07.0 2100 0040 15 38 03.1 2100 0040 15 38 04.1 2150 0000 15 40 32.1 2150 0000 15 40 33.1 TEST COND HR/MN/SEC 2150 0000 15 40 35.1 2150 0000 15 40 35.1 2150 0000 15 40 35.1 2150 0000 15 40 35.1 2150 0000 15 40 36.2 2155 0000 15 40 36.2 2155 0000 15 46 01.6 2155 0000 15 46 01.6 2155 0000 16 29 34.6 2160 0000 16 29 34.6 2160 0000 16 29 37.6 2160 0000 16 29 38.6 2160 0000 16 33 05.1 2165 0000 16 33 05.1 2165 0000 16 33 07.1 2165 0000 16 33 07.1 2165 0000 16 33 07.1 2165 0000 16 33 07.1 2165 0000 16 33 07.1 2165 0000 16 33 08.2 2160 0000 16 33 08.2 2160 0000 16 33 08.2 2111 0000 16 39 31.5 2111 0000 16 39 33.4	06 0027910.96- 0009556.25 0027910.96- 0009508.13 02 0031567.48- 0014439.61 02 0031567.48- 0014487.73 02 0033251.40- 0019443.26 03 0033203.28- 0019587.60 05 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0024735.58 0033828.74- 0027237.41 0033828.74- 0027189.29 01 0033828.74- 0027189.29 01 0033876.85- 0027189.29 01 0033876.85- 0027189.29 01 0033876.85- 0027354.33 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029354.33 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22 0033828.74- 0029306.22	0012046.04 0012118.21 0016135.56 0016135.56 0016133.67 0020898.65 0020922.71 0026551.81 0026551.81 ENT STRESC TEST COND 2 P0131A 0026551.81 0029630.98 0036551.81 0036551.81 0036551.81 003655.81 0036551.92 003655.81 003655.81 0036574.21 0036574.21 0036574.21 0036574.21 0036574.21 0036574.21 0036575.30 0010530.51	0008275.25~ 0008347.42~ 0011787.43~ 0011783.37~ 0015443.94~ 0015492.05~ 0019244.79~ 0019292.90~ 0021000.88~ 0021073.05~ 0021000.88~ 0021073.05~ 0021068.99~ 0022564.52~ 0022564.52~ 0022564.52~ 0022564.52~ 0024344.66~	P01318 P01318	14 14 14 14 14 14 14 14 14 14 14 14 14 1

ID REC PT RATE 1106 400 01	11/06/69 CONJUGATE	STRUCTURE 1	TEST COND 2			
TEST COND HR/MN/SEC	P01328	P1801318	P1801328	P0141B	P01428	GP
TEST COND HR/MN/SEC 2000 0000 09 50 06.68 2100 0000 11 19 12.32 2100 0000 11 19 13.32 2100 0000 11 19 15.32 2100 0000 11 19 15.32 2100 0000 11 19 16.32 2110 0000 13 02 50.73 2110 0000 13 02 52.73 2110 0000 13 02 53.73 2110 0000 13 02 53.73 2110 0000 13 02 54.73 2110 0000 13 07 25.70 2120 0000 13 07 26.70 2120 0000 13 07 28.70 2120 0000 13 07 28.70 2120 0000 13 07 29.70 2120 0000 13 07 29.70 2120 0000 14 11 14.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 15 50 06.49 2131 0000 14 52 00.49 2131 0000 15 31 47.68 2100 0010 15 31 47.68 2100 0010 15 32 49.10 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 33 49.68 2100 0010 15 32 50.18 2100 0020 15 34 42.66 2100 0030 15 36 07.02 2100 0040 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15	0070018.03- 0003409.93- 0003409.93- 0003313.70- 0003337.76- 0003265.59- 0011011.62- 0010939.46- 0010939.46- 0010939.46- 19022.27- 00.8998.22- 0018.74.16- 003.737.84- 0037738.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.84- 0037037.	00.0036.07-0001311.05 0001311.05 0001262.94 0001262.94 0001262.94 0008022.68 008070.79 008070.79 008070.79 0014782.41 0014782.41 0014782.41 0014782.41 0014806.47 0014710.24 0014830.52 0020844.52 0020844.52 0020844.52 0020844.52 0020844.52 0020844.52 00208682.58 0026930.69 0026978.80 0026930.69 00269882.58 0026882.58 0026884.47 0019521.44 0019497.39 0019449.28 0019473.33 0019521.44 0019533.16 0004005.32 0004101.55 000419.56	0000018.03- 0001629.78- 0001629.78- 0001677.90- 0001653.84- 0001605.73- 0005117.90- 0005117.90- 0005117.90- 0005141.96- 0005177.90- 0008726.30- 0008778.47- 0012314.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012334.70- 0012430.93- 0016255.83- 0016255.83- 0016255.83- 0016255.83- 0016231.78- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012430.93- 0012406.87- 0012430.93- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012406.87- 0012430.93- 0012430.93- 0012406.87- 0012430.93-	0000012.02- 0000084.19- 0000182.30- 0000084.19- 0000108.24- 0000060.13- 0000276.63- 0000276.63- 0000276.63- 0000276.63- 0000276.63- 0000493.14- 0000469.08- 0000493.14- 0000469.08- 0000493.14- 0001455.38- 0001431.32- 0001479.43- 0001455.38- 00012970.91- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002946.85- 0002966.85- 0007036.37-		GP 1555555555555555555555555555555555555
ID REC PT RATE	11/06/69 CONJUGAT	ELEM E STRUGTURE	·			
1106 400 01 TEST COND HR/MN/SEC	P0132B	P160131B	P1801328	P0141B	P01428	GP
2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 45 59.61 2155 0000 15 46 00.61 2155 0000 15 46 02.61 2155 0000 15 46 02.61 2155 0000 15 46 03.61 2155 0000 16 29 35.86 2160 0000 16 29 35.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 33 04.12 2165 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2111 0000 16 39 32.91 2111 0000 16 39 33.91 2111 0000 16 39 34.91 2111 0000 16 39 34.91 2111 0000 16 39 34.91	DOS DOS DOS DOS DOS DOS DOS DOS DOS DOS	0033618.26 0033666.37 0036360.64 0036408.76 0036312.53 0036312.53 0036312.53 0038525.68 0038477.57 0038429.46 0038477.57 0039680.37 0039680.37 0039680.37 0039680.37 0039680.37	0020561.86- 0020513.74- 0022799.06- 0022847.18- 0022847.18- 0022:75.01- 0024867.88- 0024819.77- 0024891.94- 0024795.71- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90- 0026166.90-	0008118.89- 0008070.78- 0008311.34- 0008335.39- 0008407.46- 0008527.84- 0008527.84- 000857.84- 000857.84- 000857.784- 000857.784- 000857.784- 000857.784- 000857.89- 0008596.23- 0008596.23- 0008596.23- 0008596.23- 0008596.23- 0008596.23-	0034633.08- 0034633.08- 0034633.08- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037286.79- 0037289.36- 0041761.21- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32- 0041809.32-	15 15 15 15 15 15 15 15 15 15 15 15 15 1

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ID REC PI RATE 1106 400 01	11/06/69 CBNJUGATE	STRUCTURE 1	TEST COND 2			•
TEST COND HR/8:4/SEC	P1801418	F1801428	P01518	P0152R	P180151B	GP
2000 0000 09 56 06.68 2100 0000 11 19 12.32 2100 0000 11 19 13.32 2100 0000 11 19 14.32 2100 0000 11 19 15.32 2100 0000 11 19 15.32 2100 0000 11 19 15.32 2110 0000 13 02 50.73 2110 0000 13 02 52.73 2110 0000 13 02 52.73 2110 0000 13 02 54.73 2110 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 13 07 25.70 2120 0000 14 11 14.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2140 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89	0000048-11 0000384-90 0000360-84 0000408-95 0000360-84 0001299-02 0001323-08 0001371-19 0001371-19 0001371-19 0001371-19 0001371-19 0001371-19 0002136-93 0002136-93 0002136-93 0002742-38 0002742-38 0002742-38 0003175-39 0003175-39 0003175-39 0003175-39 0003127-28 0003127-28 0003127-28	0090060-13- 0001960-55- 0001936-50- 0001936-50- 0001936-50- 0001960-55- 0005039-72- 0005039-72- 0005015-67- 000491-61- 0008191-06- 0008191-06- 0008191-06- 0008191-06- 0011534-84- 0011510-79- 0015167-30- 0015167-30- 0015143-24- 0015143-24-	0000018-03- 0000583-36 0000511-19 0000559-30 0000535-25 0000511-19 0001762-10 000178-05 0001810-21 0001810-21 0001876-16 0003397-91 0003325-74 0003325-74 0005755-40 0005779-45 0005779-45 0005779-45 0005755-40 0010133-59 0010133-59 0010133-59 0010133-59	0000048.10- 0000048.11 0000024.06 0000000.00 00000024.05- 0000024.05- 0000024.05- 0000024.05- 0000024.05- 0000072.16- 0000048.10- 0000048.10- 0000048.10- 0000048.10- 0000072.16- 0000048.10- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16-	0000030.06- 0000523.22 0000475.11 0000475.11 0000475.11 0001846.30 0001942.52 0001894.41 0001894.41 0001894.41 0001894.41 0001894.41 0001894.41 0003578.33 0003554.27 0003578.33 0003554.27 0003647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15 0005647.15	16 16 16 16 16 16 16 16 16 16 16 16 16 1
2131 0000 14 52 07.49 2131 0000 14 52 08.49 2131 0000 14 52 09.49 2131 0000 14 52 10.49 2131 0000 14 52 10.49 2100 0010 15 31 46.68 2100 0010 15 31 47.68 2100 0010 15 31 49.68 2100 0010 15 32 49.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0020 15 34 43.66 2100 0030 15 36 06.02 2109 0030 15 36 06.02 2109 0030 15 38 03.12 2100 0040 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15	C002838-61 C002814-55 O002838-61 O002814-55 O002838-61 O002014-55 O001202-80 O001178-74 O001156-91 O001550-91 O001539-58 O001539-58 O00261-26 O002309-38 O002865-72 O002865-72 O003319-73 O003319-73 O003656-51	0011438.62- 0011486-73- 0011486-73- 0011486-73- 0011486-73- 0003716.64- 0003692.59- 0003812.87- 0004967.55- 0004967.55- 0004967.55- 001998.61- 0007998.61- 001306-72- 0011318.34- 0015047.02- 0018095.13- 0018095.98- ELEMI	0014968.85 0014944.79 0014944.79 00149420.73 0004312.04 0004504.49 0005611.06 0005659.17 0005707.29 0009363.80 0014608.01 0014632.06 0020189.00 0020261.17 0025144.53	0000048.10- 0000024.05- 0000048.10- 0000048.10- 0000048.10- 0000048.10- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16- 0000072.16-	9006777-78 0006777-75 9006737-72 9006737-78 9002471-75 9002495-81 9002491-75 9002592-03 9003121-27 9004636-79 9004636-79 9004636-79 9004636-79 9004636-91 9006777-78 9009375-83 9009423-94 9012358-77	16 16 16 16 16 16 16 16 16 16 16 16 16
TEST COND HR/MM/SEC 2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 46 36.15 2155 0000 15 46 60.61 2155 0000 15 46 60.61 2155 0000 15 46 02.61 2155 0000 16 46 03.61 2160 0000 16 29 34.86 2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2160 0000 16 29 38.86 2160 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 06.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 39 31.91 2111 0000 16 39 33.91 2111 0000 16 39 33.91 2111 0000 16 39 33.91	P1801418 DD93656-51 D003656-51 D003656-51 D003632-46 D003776-79 D0037728-68 D003800-85 D003800-85 D003848-96 D003897-07 D003848-96 D003873-02 D003897-07 D003848-96 D003873-02 D003897-07 D003969-24 D003897-07 D003969-24	0018944.09- 0018968.15- 0018944.09- 0020748.29- 0020748.29- 0020748.29- 0020748.29- 0022311.93- 0022310.04- 0022360.04- 0022360.04- 0024621.31- 0024621.31- 0024573.19- 0024573.19- 0024573.19- 002536.28-39-	0025096.42 0025144.53 0027309.57 0027309.57 0027369.57 0027261.46 0017357.69 0029185.94 0029185.94 0029185.94 0029185.94 0029185.94 0029185.94 001350.98 0031350.98 0031350.98 0036236.52	0000072-16-	9012334.71 9012382.83 9013778.07 9013802.13 9013754.02 9013754.02 9013754.02 9014956.82 9014956.82 9014956.82 9014956.82 9016400.18 9016424.23 9016424.23 9003337.77 9003337.77 9003337.77	16 16 16 16 16 16 16 16 16 16 16 16 16 1

11/06/69 CONJUGATE STRUCTURE TEST COND 2

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TEST COND HR/MN/SEC
                                               P1801528
                                                                  P01618
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                                                                                                       P180161B
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                                                                                                                     0002868.67-
                                                                                                                     0002892.72-
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2110 0000 13 02 50.73
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                                                                                                                     0007006.30-
2110 0000 13 62 51.73
                                           0007162-66- 0000920-14
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                                                                                                                     0006861.96
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                                                                                0005075.81- 0001401.26
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                                           0007162.66- 0000970.14
0007186.72- 0000988.25
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2110 0000 13 02 54-73
                                                                                                                     0006934-13-
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0011468.69- 0001641.82
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                                                                                                                     0010710.92-
2120 0000 13 07 27.70
2120 0000 13 07 28-70
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0008419.59- 0002267.28
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 2130 0900 14 11 14.22
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2130 0000 14 11 15.22
2130 0000 14 11 16.22
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                                                                                0011450.65- 0002988.96
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0014908.70- 0002219.17
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0012474.70- 0002988.96
0011474.70- 0002988.96
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2130 0000 14 11 18.22
                                                                                                                     0014030-65-
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 2140 0000 14 15 59.89
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 2140 0000
               14 16 03.89
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0014078.76-
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2100 0010 15 31 48.68
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0003915.10- 0001208.81
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2100 0016 15 32 50-18
2100 0010 15 32 51-18
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                                                                                                                     0010470.36-
               15 34 43.66
 2100 0020
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0014770.37- 0003037.07
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0019004.23- 0003782.81
6023165.92- 0004624.77
0.23165.92- 0004624.77
 2100 0030 15 36 06.02
                                            0014283.24-
                                                              0003421.97
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0017843.53- 0004239.87
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2100 0040 15 38:04.12
2150 0000 15 40 32.15
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                                                                                                                     0021319:62-
 2150 0000 15 40 33-15
                                            0021283-54- 0005394-56
                                                                                                                     CO21319.62-
                                                                         ELEMENT .
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  IS REC PT RATE
                                   11/06/69 CONJUGATE STRUCTURE TEST COND 2
                      01
 1106
           400
 TEST COND HR/MN/SEC
                                                P1801528
                                                                  P01618
                                                                                     P01628
                                                                                                       P1801618
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2150 0000 15 40 35.15
2150 0000 15 40 36.15
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0021307:59- 0005298.53
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                                                                                0025234.73- 0005081.83
0025186.62- 0005033.72
 2155 0000 .3 45 59.61
                                                                                                                     0023099-76-
 2155 0000 15 46 00.61
2155 0000 15 46 01.61
2155 0000 15 46 02.61
2155 0000 15 46 02.61
2155 0000 15 46 03.61
                                            0022678.78- 0005779.45
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0025186.62- 0005081.83
0025186.62- 0005081.83
0027062.99- 0005394.56
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0022654,73- 0005755.40
                                                                                                                     0023079.76~
                                                                                                                     0023075.71-
 2160 0000 16 29 34.86
                                            0024122-14- 0006188-41
                                                                                                                     0024515.29~
 2160 0000 16 29 35.86
                                            0024122.14- 0006212.46
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002 7062.99- 000 53 70.50
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                                            0024122-14- 0006212-46
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 2160 0000 16 24 33.86
2160 0000 16 29 38.86
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0025630.12- 0006669.53
                                                                                                                     1024615.29-
                                                                                0027014488- 0005394.56
0029179.92- 0005875.68
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 2165 0000 16 33 04.12
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 2165 0000
               18 33 06.12
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                16 39 33.91
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2111 0000 16 39 34.91
2111 0000 16 39 35.91
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TEST COND H8/MM/SEC P01818 P01828 P0191A P0192A P0193A P0193A P0193A P0193A P0193A P	ID REC PT RATE 1106 600 01	11/06/69 CONJUÇATE	STRUCTURÉ	TEST COND 2			
2100 0000 11 91 2.32	TEST COND HR/MN/SEC	P01818	P01828	P0191A	PO192A	P02018	GP
2100 0040 15 38 04.12 0037401.06- 0010849.25- 0024861.88 0002189.09- 0007914.41- 16 2150 0000 15 40 32.15 0043415.06- 0014397.37- 0029288.18 0003319.72- 0009766.73- 18 2150 0000 15 40 33.15 0043415.06- 0014397.37- 0029288.18 0003319.72- 0009718.61- 18 2150 0000 15 40 33.15 0043415.06- 0014397.37- 0029288.18 0003319.72- 0009718.61- 18 2150 0000 15 40 35.15 0043415.06- 0014397.37- 0029386.29 0003247.55- 002928.28 000319.72- 0009718.61- 18 2150 0000 15 40 35.15 0043415.06- 0014397.37- 0029386.29 0003247.55- 0029718.61- 18 2150 0000 15 40 36.15 0043415.06- 0014398.48- 0029288.18 0003295.66- 0009718.61- 18 2155 0000 15 40 00.61 0046013.10- 0016117.51- 0031549.44 0003824.89- 0010656.80- 18 2155 0000 15 40 00.61 0046013.10- 0016017.51- 0031549.44 0003824.89- 0010652.74- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 0031549.44 0003840.95- 0010632.74- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 0031549.44 000380.84- 0010608.69- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 0031549.44 000380.84- 0010608.0- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 0031549.44 000380.84- 0010608.0- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 00031549.44 000380.84- 0010608.0- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 00031549.44 000380.84- 0010608.0- 18 2155 0000 15 40 00.61 0046013.10- 0016094.0- 00031549.44 000380.84- 0010608.0- 18 2155 0000 16 29 34.80 0048226.26- 0017608.98- 0033425.81 004306.0- 0011474.70- 18 2160 0000 16 29 35.80 0048226.26- 0017608.98- 0033377.70 004354.13- 0011474.70- 18 2160 0000 16 29 38.86 0048276.26- 0017608.98- 0033377.70 004955.53- 0012364.77- 18 2165 0000 16 33 06.12 0050246.96- 0019533.46- 0035735.19 0004955.53- 0012364.77- 18 2165 0000 16 33 06.12 0050246.96- 0019533.46- 0035735.19 0004955.53- 0012364.77- 18 2165 0000 16 33 06.12 0050246.96- 0019533.46- 0035735.19 0004955.53- 0012364.77- 18 2160 0000 16 39 38.91 0019551.50- 0001757.09- 0035735.19 0004955.53- 0012364.77- 18 2160 0000 16 39 38.91 0019551.50- 0001757.09- 0035735.19 0004955.53- 0012364.77- 18 2160 0000 16 39 38.91 001955	2000 0000 09 50 06.68 2100 0000 11 19 12.32 2100 0000 11 19 14.32 2100 0000 11 19 14.32 2100 0000 11 19 15.32 2100 0000 11 19 16.32 2100 0000 13 02 50.73 2110 0000 13 02 51.73 2110 0000 13 02 52.73 2110 0000 13 02 52.73 2110 0000 13 02 52.73 2110 0000 13 07 25.70 2120 0000 13 07 28.70 2120 0000 13 07 28.70 2120 0000 13 07 28.70 2120 0000 13 07 28.70 2120 0000 13 07 29.70 2120 0000 13 07 29.70 2120 0000 13 07 29.70 2120 0000 14 10 14.22 2130 0000 14 11 15.22 2130 0000 14 11 15.22 2130 0000 14 11 15.22 2130 0000 14 11 15.22 2130 0000 14 11 18.22 2130 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 16 02.89 2140 0000 14 52 06.49 2131 0000 14 52 06.49 2131 0000 14 52 06.49 2131 0000 14 52 08.49 2131 0000 15 31 46.68 2100 0010 15 31 46.68 2100 0010 15 31 46.68 2100 0010 15 31 46.68 2100 0010 15 31 47.68 2100 0010 15 31 47.68 2100 0010 15 32 49.18 2100 0010 15 32 49.18 2100 0010 15 32 49.18 2100 0010 15 32 50.18 2100 0010 15 32 50.18 2100 0010 15 32 49.18	0000006.01 0003542.25 0003542.25 0003542.25 0003542.25 0003542.25 0003542.25 0003542.25 0003542.25 00035494.13 0007222.81 0007222.81 0007222.81 0007222.81 0007222.81 0007222.81 0007222.81 0007222.81 0007222.81 000722.81 0010518.49	0000000.00 0001010.34- 0001034.46- 0001034.46- 0001010.34- 0001010.34- 0001257.90- 0004281.96- 0004233.85- 0007337.07- 0007313.01- 0007264.90- 0007313.01- 0007264.91- 0010199.73- 0010175.68- 0010175.68- 0013158.62- 001316.51- 0007601.83- 0007601.83- 0007601.83- 0001611.74- 0001587.69- 0007601.69- 0007553.57-	0000060.13- 0000036.07- 0000036.07- 0000036.07- 0000012.02- 000012.02- 0000517.19- 0000553.31- 0000517.19- 0000565.31- 0000517.19- 0000709.64- 0000709.64- 0000709.64- 0000709.64- 0000661.53- 0000589.37- 0000589.37- 0000661.54- 0000661.54- 0000661.54- 0000661.54- 0002778.47- 0002778.47- 00027802.52- 0002109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021109.14- 0021061.03- 00116579.19- 00116562.52- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 0013026.32- 00120531.80- 0020555.55	0000024.06 0001371.18- 0001323.07- 0001299.01- 0001323.07- 0001419.29- 0003608.39- 0003536.22- 0003584.33- 0005821.54- 0005821.54- 0005821.54- 0005821.54- 0005821.54- 0007361.13- 0007409.24- 0007385.18- 0007409.24- 0008780.43- 0008780.43- 0001250.99- 000126.85- 0001226.85- 0001226.85- 0001323.08 0001323.08 0001323.08 0001323.08 0001323.08 0001323.08 0000793.85 0000793.85 0000793.85 0000793.85 0000793.85 00000793.85 0000793.85 0000793.85	0900024.05- 0000625.45- 0000673.56- 0000649.50- 0000649.50- 0000649.50- 0001948.53- 0001924.47- 0001948.53- 0001972.58- 0001972.58- 000319.72- 000319.72- 000319.72- 000319.72- 000319.72- 0004570.63- 0004570.63- 0006062.10- 000608.05- 0006062.10- 0006182.38- 0006158.33-	18 18 18 18 18 18 18 18 18 18 18 18 18 1
TEST COMD HR/MN/SEC	2100 0040 15 38 04-12 2150 0000 15 40 32-15	0037401.06- 0043415.06-	0010849.25-	0024861.88	0002189.09- 0003295.66-	0007914.41-	<u> 18</u> _18
TIO6 400 01 YEST COND HR/MN/SEC P0181B P0182B P0191A P0192A P0201B GP 2150 0000 15 40 34.15	2150 0000 15 40 33.15	0043415.06-			0003319.72-	0009718-61-	18
TIO6 400 01 YEST COND HR/MN/SEC P0181B P0182B P0191A P0192A P0201B GP 2150 0000 15 40 34.15	IN REC PT RAYS	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2	•		
2150 0000 15 40 34.15	£106 400 01	.,					
2111 0000 16 39 35.91 0019575.55- 0001659.85- 3024253.18 0001034.41 0002982.93- 18	2150 0000 15 40 34;15 2150 0000 15 40 36;15 2150 0000 15 40 36;15 2155 0000 15 45 59;61 2155 0000 15 46 00;61 2155 0000 15 46 00;61 2155 0000 15 46 03;61 2155 0000 15 46 03;61 2160 0000 16 29 34;36 2160 0000 16 29 36;86 2160 0000 16 29 36;86 2160 0000 16 29 36;86 2160 0000 16 29 37;86 2165 0000 16 33 04;12 2165 0000 16 33 05;12 2165 0000 16 33 05;12 2165 0000 16 33 08;12 2165 0000 16 33 08;12 2111 0000 16 39 31;91 2111 0000 16 39 32;91 2111 0000 16 39 33;91 2111 0000 16 39 34;91	00+3+15.06- 0043463.17- 0043613.10- 0046061.22- 0046061.22- 0046061.22- 0046061.22- 0046013.10- 0048226.26- 0048274.37- 0048225.26- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0050246.96- 0019551.50- 0019551.50- 0019527.45-	0014337.37-0014385.48-001617.51-0016017.51-0016021.29-0017512.76-0017608.98-0017608.98-0017608.98-0019461.29-0019437.24-0019437.24-0019533.46-00175.08-0901732.27-001732.27-001732.27-001737.97-9001707.97-	0029336.29 0029288.18 0031549.44 0031549.44 0031549.44 0031549.44 0033425.81 0033425.81 0033477.70 0035735.19 0035735.19 0035735.19 0035735.19 0035735.19 0035735.19 0035735.19	0003247.55- 0003271.61- 0003295.66- 0003824.89- 0003824.89- 0003800.84- 0003800.84- 0004306.01- 0004354.13- 0004281.96- 0004955.53- 00049779.58- 00049779.58- 0004955.53- 0004955.53- 0004955.53- 0004955.53-	00097.18.42- 0009742.67- 0009718.61- 0010656.80- 0010632.74- 0010608.69- 00106032.74- 0011474.70- 0011470.65- 0011474.70- 0011474.70- 0011474.70- 0012364.77- 0012364.77- 0012388.83- 0002982.93- 0002982.93- 0002982.93- 0002910.77-	18 18 18 18 18 18 10 18 18 18 18 18 18 18

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1D 1106	REC PT 400	RATE -01	11/06/69 CONJUGATE	E STRUCTURE 1	TEST COND 2			
TEST	COND HR.	/HN/SEC	P02028	P.1802016	P1802028	P0211A	P0212A	GP
		50 06.68	0000024.06				0000048.10-	19
		19 12.32			0000517.19-		0000938.18	19
		19 13.32	0000433.01 0000457.06		0000517.19-		0001010.35	19
		19 15.32	0000457.08		0000517.19-		0001034.41	19 19
		19 16.32	0000408.95		0000469.08-		0000986.30	19
		02 50.73	0001178.74		0000757.75-		0005220.15	19
		02 51.73	0001178.74		0000733.70-		0005220.15	19
		02 52.73 02 53.73	0001202.80 0001226.86		0000733.70-		0005172-04	19
		02 54.73	0001202.80		0000709.64-		0005220.15	19 19
2120	0000 13	07 26.70	0001900-42		0000709.64-		0008154.98	19
		07 27-70	0001876-37		0000709-64-		0008106.87	19
		07 28.70 07 29.70	0001876.37 0001804.20			0000541.26 0000517.20		19
		07 30.70	0001876.37		C 00733.70-		0008130-93	19 19
2130	0000 14	11 14-22	0002525.88			0000228.53		19
		11 15.22	0002598.05			0000276-64		19
		11 16.22	0002622.10 0002622.10			0000204.48		19
		11 18-22	0002646.16			0000226.55		19 19
2146	0000 14	15 59.89	0003295.67			0000276.63-		19
		16 00-89	0003247.56			0000300.69-		19
		16 01.89 16 02.89	0003319.73 0003271.62			0000228.52-		19 19
		16 0 89				0000276.63-		19
2140	0000 14	16 04.89	0003271.62			0000252.58-		19
		52 06-49	0002865.04			0004173-71-		19
		52 07-49 52 08-49				0004125.59- 0004125.59-		19 19
		52 09.49	0002116.93			0004173.71-		19
		52 10.49	0002165.04	0001948.53-	0000493.14-	0004101.54-	0010753.03	19
		31 46.68 31 47.68	0000649.51			0001671.88-		19
		31 48.68	0000673.57 0000649.51			0001719.99-		19 19
		31 49.68		0000625-45-	0000613.42-	0001695.94-	0003752-74	19
		32 49.18		0000841.95~	0000637.47-	0002153.00-	0004811-20	19
		32 50.18 32 51,18	0000914.13 0000962.24			0002128.95-		.19
		34 42.66				0002104.89-		19 19
2100	-0020 15	34 43.66	0001587.70			0003139.30-		19
		36 06.02				0004077.48-		19
		36 07.02 38 03.12				0004077.48-		19 -19
		38 04-12				0004919-44-		19
		40 32-15	- M	0003728.67-	0000132.31	0005593.01-	0016285.91	19
2150	0000 15	40 33.15	0003391.90	0003656.50-	0000108-25	0005593.01-	0016334-02	19
				ELEM	ENT STRESS			
ID	REC PT	RATE	11/06/69 CMNJUGAT	E STRUCTURE	TEST COND 2			
1106	400	01	_					
TEST	COND HR	/MN/SEC	P0202B	P180201B	P180202B	P0211A	P0212A	GP
		40 34-15			0000036.08	0005641.12-		19
		40 35-15		0003656.50-		0005617.07-		19
		45 59.61		0003860.38-		0005641.12-		19 19
		46 00.61	0003728.68	0004209.79-	0000276.64	0005977.91-		19
		46 01.61		0004161.68-		0005953.85~		19
		46 02.61 46 03.61		0004185.73-		0005977.91- 0005953.85-		19 19
		29 34-86			0000396.92	0006098.19-		19
		29 35.86		0004642.80-		000619441-	0018811.79	19
		29 36.86 29 37.86		0004594.69-	0000445.04	0006194.41-		19
		29: 38.86			0000449.04	0006146.30- 0006194.41-		19 19
		33 04-12	0004378.19		0000685.60	0006434.97-	0023207.04	19
		33 05-12			0000709.65	0006410.91-		19
		33 06.12 33 07.12			0000709.65			19 19
2365	0000 16	33 08.12	0004366.02	0005147.97-	0000709.65	0006410.91-	0020102.98	19
		39 31.91				0002273.28-		19
		39 32.91 39 33.91				0002273.28-		19 19
2111	0000 16	39 34.91	0000890.07	0001034-40-	0000757.75~	0002273.28-	0004739.03	19
2111	0000 16	39 35.91	0000890.07	0001058.45-	0000781.81-	0002225.17-	0004739.03	19

11/06/69 CONJUGATE STRUCTURE TEST COND 2

TEST COND HR/HN/SEC	P0221A	P0222A	P0231A	P0232A	N/A	GP
2000 0000 09 50 06.68	-50.5100000	0000030.06-		0000024.05-	0000048.11	20
2100 0000 11 19 12-32	0001744.06	0001052.45	0000577.34	0002020.70	0000048.10-	20
2100 0000 11 19 13.32	0001816.23	0000980.28	0000601.40	0001996-65	0000048-10-	20
2100 0000 11 19 14.32	0001792-17	0000980+28	0000601.40	0002068-82	0000096.21-	20
2100 0000 11 19 15.37	0001744.06	0001004.34	0000601.40	0002068.82	0000024.05-	20
2100 0000 11 19 16.32	0001792-17	0000980.28	0000577.34	0002044.76	0000048-10-	20
2110 0000 13 02 50.73 2110 0000 13 02 51.73	0005689-24	0001822-24	0000096.21-		0000024.06	20
2110 0000 13 02 52.73	0005641.13	0001846.30	0000024.05-		00000000.00	20
2110 0000 13 02 52.73	0005617.08 0005685.19	0001790.19	0000024.05-		0000024.05~	20
2110 0000 13 02 54.73	0005689.24	0001822.24	0000120-27-		0000024.05- 0000024.05-	20
2120 0000 13 07 26.70	0009273.59	0002327.42	0001010.34-		0000024-05-	20
2120 0000 13 67 21.70	0009321.70	0002279.31	0001010134-		0000024-05-	20 20
2120 0000 13 07 28.70	0009249.53	0002255.25	.0001010.34-		0000024-05-	20
2120 0000 13 07 29.70	0009249.53	0002303.36	0001034.40-		0000072-16-	20
2120 0000 13 07 30.70	0009297.64	0002303.36	0000962-23-		0000048.11	20
2130 0000 14 11 14.22	0012545.20	0002640.15	0001683.91-		0000024.06	20
2130 0000 14:11 15.22	0012569.26	0002736.37	0001683.91-		0000024-06	20
2130 0000 14 11 16.22	0012545.20	0002664.20	0001707.97-		0000024.06	20
2130 0000 14 11 17.22	0012545.20	0002688-26	0001707.97~	0013447.30	.0000000.00	20
2130 0000 14 11 18.22	0012569.26	0002640.15	0001707.97-	0013447.30	0000000.00	20
2140 0000 14 15 59.89		0002952-87	0002309.37-		0000000.00	20
2140 0000 14 16 00.89	0015840-88	0002928.82	0002333.42-		0000024.06	20
2140 0000 14 16 01:89	0C15864.93	0002904.76	0002333.42-		0000000.00	20
2140 0000 14 16 02:89 2140 0000 14 16 03:89	0015816.82	0002880.71	0002357-48-		0000024.05-	20
	0015864,93	0002928.82	0002405.59-		0000024.06	20
2140 0000 14 16 04.89 2131 0000 14 52 06.49	0015864.93	0002904.76	0002309.37-		0000024.05-	20
2131 0000 14 52 07.49	0012352.76 0012280.59	0001846.30	0001539.57-		000000000	20
2131 0000 14 52 08.49	0012280.59	0001870.35 0001846.30	0001515.52-		0000024-05	20
2131 0000 14 52 09.49	0012328.70	0001798.19	0001563.63-		0000048.11 0000048.11	20 20
2131 0000 14 52 10.49	0012280.59	0061798-19	0001539.57-		0000000.00	20 20
2100 0010 15 31 46.68	0003909.10	0001172.73	0000962.24	0004161-69	0000024-05-	20
2100 0010 15 31 47,68	0003957.21	0001196.79	0000962.24	0004161.69	0000000.00	20
2100 0010 15 31 48.68	0003981-27	0001196.79	0000962-24	0004257.91	0000024-05-	20
2100 0010 15 31 49.68	0004125.60	0001196.79	0000890.07	0004281.97	0000024-06	20
2100 0010 15 32 49.18	0005376.52	0001365.18	0000577.34	0005773.44	0000000.00	√20
2100 0010 15 32 50.18	0005448.68	0001437.35	0000529.23	0005773.44	0000024.05-	20
2100 0010 15 32 51.18	0005520.85	0001437.35	0000553.29	0005845.61	0000000.00	20
2100 0030 16 56 እን ፈፋ	*******					
2100 0020 15 34 42.66	0008864.64	0001629.79	0000577.33-		0000024.06	20
2100 0020 15 34 43.66	0008840.58	0001653.85	0000577.33-	0009694.57	0000024.06 0000024.05-	
2100 0020 15 34 43.66 2100 0030 15 36 06.02	0008840.58 0012256.53	0001653.85	0000577.33- 0001539.57-	0009694.57 0013278.91		20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02	0008840.58 0012256.53 0012256.53	0001653.85 0001846.30 0001774.13	0000577.33- 0001539.57- 0001539.57-	0009694.57 0013278.91 0013302.97	0000024.05- 0000120.27- 0000048.10-	20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 35 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12	0008840.58 0012256.53 0012256.53 0015600.32	0001653.85 0001846.30 0001774.13 0001942.52	0000577.33- 0001539.57- 0001539.57- 0002429.65-	0009694.57 0013278.91 0013302.97 0017007.59	0000024.05- 0000120.27- 0000048.10- 0000144.34	20 20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 04.12	0008840.58 0012256.53 0012256.53 0015600.32 0015648.43	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47	0000577.33- 0001539.57- 0001539.57- 0002429.65- 0002429.65-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70	0000024.05- 0000120.27- 0000048.10- 0000144.34 0000024.06	20 20 20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 36 03.12 2100 0040 15 38 04.12 2150 0000 15 40 32.15	0008840.58 0012256.53 0012256.53 0015600.32 0015648.43 0019064.38	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47 0002086.86	0000577.33- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003103.21-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44	0000024.05- 0000120.27- 0000048.10- 0000144.34 0000024.06 0000048.10-	20 20 20 20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 04.12	0008840.58 0012256.53 0012256.53 0015600.32 0015648.43	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47	0000577.33- 0001539.57- 0001539.57- 0002429.65- 0002429.65-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44	0000024.05- 0000120.27- 0000048.10- 0000144.34 0000024.06	20 20 20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 36 03.12 2100 0040 15 38 04.12 2150 0000 15 40 32.15	0008840.58 0012256.53 0012256.53 0015600.32 0015648.43 0019064.38	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47 0002086.86	0000577.33- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003103.21- 0003055.10-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44	0000024.05- 0000120.27- 0000048.10- 0000144.34 0000024.06 0000048.10-	20 20 20 20 20 20 20
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 36 03.12 2100 0040 15 38 04.12 2150 0000 15 40 32.15	0008840.58 0012256.53 0012256.53 0015600.32 0015648.43 0019064.38	0001653.85 0001846.30 6001774.13 0001942.52 0001918.47 0002086.86 0002110.91	0000577.33- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003103.21- 0003055.10-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44	0000024.05- 0000120.27- 0000048.10- 0000144.34 0000024.06 0000048.10-	20 20 20 20 20 20 20
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2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 04.12 2150 0040 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15 10 REC %T RATE 1104 400 01 TEST COND HR/MN/SEC 2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 40 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2160 0000 16 29 34.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12	0008840.58 0012256.53 0012256.53 0012256.53 0015648.43 0015648.43 0019064.38 0019112.49 11/06/69 CDMJUGATE P0221A 0019088.44 0019112.49 0019336.55 0020844.52 0020820.47	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47 0002086.86 0002110.91 ELEM ESTRUCTURE P0222A 0002183.08 0002062.80 000210.91 0002207.14 0002207.14 0002231.19 0002207.14 0002255.25 0002353.36 0002353.47 0002354.47 0002354.47 0002379.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59	0000577.33- 0001539.57- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003055.10- ENT STRESS REST COND & P0231A 0003127.27- 0003079.16- 0003271.61-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44 0020784.38 P0232A 0020856.55 0020832.30 002088.44 0022684.81 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0026841.32 0026893.21 0026293.21 0026293.21 0026293.21 0026293.21 0026293.21	0900024.05- 0000120.27- 0000048.10- 0000144.34 0900024.06 000024.05- 0000024.05- 0000024.06 0000000.00 0000024.06 0000024.06 0000048.11 0000024.06 0000048.11 0000024.06 0000048.11 0000024.06 0000048.11 0000024.05- 000048.11	20 20 20 20 20 20 20 20 20 20 20 20 20 2
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 04.12 215^ 0000 15 40 32.15 2150 0000 15 40 33.15 1D REC RT RATE 1104 400 01 TEST COND HR/MN/SEC 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2155 0000 15 40 36.15 2155 0000 15 40 36.15 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 15 40 03.61 2155 0000 16 29 36.86 2160 0000 16 29 36.86 2160 0000 16 29 36.86 2160 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 07.32	0008840.58 0012256.53 0012256.53 0012256.53 0015648.43 0015648.43 0019064.38 0019112.49 11/06/69 CONJUGATE P0221A 0019088.44 0019112.49 0019138.55 0020820.47	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47 0002086.86 0002110.91 ELEM ESTRUCTURE P0222A 0002183.08 0002062.80 0002110.91 0002207.14 0002207.14 0002231.19 0002207.14 0002255.25 0002393.33 0002351.47 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59	0000577.33- 0001539.57- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003055.10- ENT STRESS FEST COND Z P0231A 0003127.27- 0003079.16- 0003271.61- 0003271.61- 0003271.61- 0003271.61- 0003271.61- 0003271.61- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003464.05- 0003468.39- 0003608.39- 6003668.39- 6003668.39- 600721.68 0000721.68	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44 0020784.38 P0232A 0020856.55 0020832.39 0020808.44 0022684.81 002268888888888888888888888888888888888	0900024-05- 0000120.27- 0000048-10- 0000144-34 0000024-06 0000024-05- 0000024-06 0000000-00 0000024-06 0000048-11 0000024-05- 000048-11 000024-05- 000048-11 000024-05- 000048-11 000024-05- 000048-11 000024-05- 000048-11	20 20 20 20 20 20 20 20 20 20 20 20 20 2
2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 04.12 2150 0040 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15 10 REC %T RATE 1104 400 01 TEST COND HR/MN/SEC 2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2150 0000 15 40 36.15 2155 0000 15 40 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2155 0000 15 46 03.61 2160 0000 16 29 34.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12	0008840.58 0012256.53 0012256.53 0012256.53 0015648.43 0015648.43 0019064.38 0019112.49 11/06/69 CDMJUGATE P0221A 0019088.44 0019112.49 0019336.55 0020844.52 0020820.47	0001653.85 0001846.30 0001774.13 0001942.52 0001918.47 0002086.86 0002110.91 ELEM ESTRUCTURE P0222A 0002183.08 0002062.80 000210.91 0002207.14 0002207.14 0002231.19 0002207.14 0002255.25 0002353.36 0002353.47 0002354.47 0002354.47 0002379.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59 0002399.59	0000577.33- 0001539.57- 0001539.57- 0001539.57- 0002429.65- 0002429.65- 0003055.10- ENT STRESS REST COND & P0231A 0003127.27- 0003079.16- 0003271.61-	0009694.57 0013278.91 0013302.97 0017007.59 0017055.70 0020308.44 0020784.38 P0232A 0020856.55 0020832.30 002088.44 0022684.81 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0024320.62 0026841.32 0026893.21 0026293.21 0026293.21 0026293.21 0026293.21 0026293.21	0900024.05- 0000120.27- 0000048.10- 0000144.34 0900024.06 000024.05- 0000024.05- 0000024.06 0000000.00 0000024.06 0000024.06 0000048.11 0000024.06 0000048.11 0000024.06 0000048.11 0000024.06 0000048.11 0000024.05- 000048.11	20 20 20 20 20 20 20 20 20 20 20 20 20 2

ID REC PT 1106 400 RATE 01

ID R 1106	EC PT 400	RATE 01	11/06/69 CONJUGATE	STRUCTURE 1	EST CGND 2			
TEST C	OND HR	/HN/SEC	P0171A	P0172A	P180171A	P180172A	P180181B	ЗP
		50 06.68		0000042.10				21
		19 12.32		0002074.82-				21
		19 13.32		0002098.88-				21 21
		19 15.32		0002122.93-				21
		19 16.32		0002098.88-				21
		02 50-73		0005442.66-				21
		02 51.73		0005418.60-				21 21
		02 53.73		0005418.60-				21
		02: 56-73		0005418.60-				21
		07 26.70 07 27.70		0008666.16-				21 21
		07 28.70		0008690.22-				21
		07 29.70	0007030.36-	0008642-11-	0007024.34-	0006801.82-	0008317-36	21
		07 30.70		0008618.05-				21
		11 14.22		0011649.11-				21 21
		11 16.22		0011649.11-				21
		11 17-22		0011625.05-				21
		11 18.22 15 59.89		0011601.00-				21 21
		16 00.89		0015594-29-				21
		16 01.89		0015570.24-				21
		16 02.89		0015546-18-				21
		16 03.89 16 04.89		0015498.07-				21 21
		52 '06.49				0009616.38-		21
2131 0	000 14	52 07.49	0007547-57	0021247-45-	0009622.39-	0009616.38-	0012142.27	21
		52 08-49				0005592-32-		21
		52 09.49 52 10.49				0009592.32-		21 21
		31 46.68				0002736.36~		21
2100 0	010 15	31 47.68	9007836.24	Q009556-24-	0004185.73-	0002808.53~	0004179.73	21
		31 48.68				0002880.70-		21
		31 49.68 32 49.18				0002856.64-		21 21
		32 50.18	0008245.19			0003891-05-		21
		32 51.18				0003891.05-		21
		34 42.66				0006561-26-		21,
		34 43.66 36 00.02				0006657.49-		21 21
		36 07.02				0009472-04-		21
		38 03.12				0012599-32-		21
		38 04.12 40 32.15				0012575.26- 0015846.88-		21 21
		40 33.15				0015822.82-		રો
		ž.						
		•		ELEK	ENT STRESS			
	EC PT	RATE	11/06/69 ÇONJUGAT	E STRUCTURE	TEST CONU 2			
1106	400	01			-	•		
TES1' C	QND HR	/MH/SEC	P0171A	P0172A	P180171A	P180172A	P180131B	GP
		40 34.15				0015822.62-		21
		40 35.15	0004612.74			0012822.82-		21
		40 36.15 45 59.61	0004612±74 0003674 . 55			0015846.88- 0017458.63-		21 21
		46 00.61				0017458.63-		21
		46 01.61	0003674.55	0033443-84-	0015636.39-	0017506.74-	0020994.87	21
		46 02.61 66 03.61	0003722.67	0033443.84-	0015660.45-	0017482.69-	0021018.93	21
		29 34.86	0003746.72 0002904.76			0017482.69-		21 21
2160 0	000 Fe	29 35.86	0002928.82	0035608.88-	0016863.25-	0018974-16-	0022823.13	21
		29 36-85	0002976.93			0018950-10-		21
		29 37.86 29 38.86	0002904.76 0002904.76	0035560.77~	0016815.13-	0018974.16- 0018974.16-	0022750.96	21
		33 04.12	0002707.78			0020682.14-		21 21
2165 0	000 16	33 05.12	0001822.24	0038255.04~	0020588-15-	0020778-36-	0024074.04	21
		33 06-12	0001894.41	0038206-93-	0020615.98-	0070730.25-	0024122-15	21
		33 07.12 33 08.12	0001846.30 0001870.35	0038158-82~	0020540.04-	0020730.25-	0024098.10	21 21
		39 31.91	0008533.87			0003866.99~		21
2111 0	000 16	39 32.91	0008533.87	0011961.84-	0007746-02-	0003939.16-	0004179.73	21
		39 35.91	0008557.97			0003939.16-		21
		39 34.91 39 35.91	0008557-92 0008557-92			0003891.05-		21 21
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.ID REC PT RATE	11/06/69 CONJUGATE S	TRUCTURE T	EST COND 2			
TEST COND HR/MN/SEC	P180182B	P180191A	P180192A	P180211A	P180212A	GP
2000 0000 09 50 06. 2100 0000 11 19 12.						22 22
2100 0000 11 19 13.						22
2100 0000 11 19 14.						22
2100 0000 11 19 15.						22
2100 0000 11 19 16.						22
2110 0000 13 02 50.						22
2110 0000 13 02 51.						22 22
2110 0000 13 02 52. 2110 0000 13 02 53.						22
2110 0000 13 02 53.						22
2120 0000 13 07 26.						22
2120 0000 13 07 27.						22
2120 0000 13-07 28.	0 0007102.52- 00	04636.78-	0004552.59-	0010271-90~	0007264-91	22
2120 0000 13 07 29.						22
2120 0000 13 07 30.						22
2130 0000 14 11 14.						22
2130 0000 14 11 15.						22 22
2130 0000 14 11 16. 2130 0000 14 11 17.						22
2130 0000 14 11 18.						22
2140 0000 14 15 59.						22
2140 0000 14 16 00.						22
2140 0000 14 16 01.	9 0012707.57~ 00	004324.06-	0008762.39-	0011258.20-	0011835-55	22
2140 0000 14 16 02.						22
2140 0000 14 16 03.						22
2140 0000 14 16 04.						22
2131 0000 14 52 06. 2131 0000 14 52 07.						22 22
2131 0000 14 52 08.						22
2131 0000 14 52 09.						22
2131 0000 14 52 10.						25
2100 0010 15 31 46.						22
2100 0010 15 31 47.	8 0003157.34- 00	002880.70-	0001834.26-	0006447.00-	0003536.23	22
2100 0010 15 31 48.						22
2100 0010 15 31 49.						22
2100 0010 15 32 49.						22
2100 0010 15 32 50. 2100 0010 15 32 51.						22 22
2100 0020 15 34 42.						22
2100 0020 15 34 43.						22
2100 0030 15 36 06.						22
2100 0030 15 36 07.						22
2100 0040 15 38 03.	2 0012587.29- 00	004251.89-	0008666-16-	0011306.31-	0011907 . 72	22
2100 0040 15 38 04.						22
2150 0000 15 40 32.						22
2150 0000 15 40 33.	5 0015762.68~ 00	003746.71-	0011042-85-	0011180.03-	0014511+10	22
		ELEME	NT STRESS			
ID REC PT RATE 1106 400 01	11/06/69 CONJUGATE	STRUCTURE 1	TEST COND 2			
TEST COND HR/HN/SEC	P.1 801 828	P180191A	P180192A	P180211A	P180212A.	GP
2150 0000 15 4G 34.	5 0015786.74- 0	003722.66~	0011119.88-	0011186.03-	0014241-15	22
2150 0000 15 40 35.						22
2150 0000 15 40 36.	5 0015786.74- 0					22
2155 0000 15 45 59.						22
2155 0000 15 46 00.						22
2155 0000 15 46 01-						22 22
2155 0000 15 46 02.						22
2155 0000 15 46 03. 2160 0000 16 29 34.						žž
2160 0000 16 29 35.						22
2160 0000 16 29 36.						22
2160 0000 16 29 37.	6 0018697-52- 0	002832.58~	0013405-20-	0010728.97~	0016382.14	22
2160 0000 16 29 38.	6 0018649.40- 0	002808.53-	0013381-14-	0010753.02-	0016430-25	22
2165 0000 16 33 04.	.2 0020285.21- Ó					55
2165 0000 16 33 05.						22
2165 0000 16 33 06	2 0020357.38- 0	001293.00-	0014992.89-	0010488,41-	0012607 07	22 22
2165 0000 16 33 07	2 0020357.38- 0	-90-11516n	0012041-00-	~~ <c.+6+0100< td=""><td>0011207477 0017560_88</td><td>55</td></c.+6+0100<>	0011207477 0017560_88	55
2165 0000 16 33 08		-00.31¢.00-	10019772+891	. 0010440°57 .	0004835-26	22
2111 0000 16 39 31- 2111 0000 16 39 32-		1002116+5U=	- 1002770+04° - 0003037-04-	- A8-A018000	0004739.03	22
2111 0000 16 39 33	0004576.64- 0	002688.25~	0002988.95-	- 0008106.86-	0004787+14	22
2111 0000 16 39 34	0004504-48-0	002640-14-	0002940.84-	0008106.86-	0004714-98	22
2111 0000 16 39 35		002712.30-	0002940.84-	0008106.86-	0004835.26	22

FIRMENT STRESS

ID 1106	REC PT	RATE 01	11/06/69 CONJUGATE	STRUCTURE	TEST COND 2			
TEST	COND HR	/HH/SEC	P180221A	P180222A	P180231A	P180232A	R169241A	GP
2000	0000 09	50 06.68	0000024.05-	0000024.05-	0.000024.06	0000066-15	0000012.03	23
		19 12.32	0002357.48-		0006086.16-		0000950-21	23
		19 1:3-32	0002381.53-		0006062-10-		0001022.38	23
		19 14.32 19 15.32	0002405.59- 0002357.48-		0006038.05-		0000950.21 0000974.27	23 23
		19 16.32	0002351.40-		0006038-05-		0001022.38	23
		02 50.73	0005244.20-		0018234.44-		0001840.28	23
		02 51.73	0005244.20-		0018282.55-		0001864.34	23
		02 52.73	0005244-20-		0018234-44-		0001840-28	23
		02 53.73	0005244.20÷		0018258.49-		0001840.28 0001840.28	23 23
		07 26.70	0006928.12-		0028506.35-		0002586.02	23
2120	0000 13	07 27.70	0006928.12-		0028506.35-		0002658.19	23
		07 28470	0006880.01-		0028458.24-		0002551.96	23
		07 29.70	0006928.12- 0006855.95-		0028506.35- 0028658.24-		0002586.02 0002586.02	23 23
		11 14.22	0007770.08-		0075578-81-		0002305.53	23
2130	0000 14	11 15.22	0007746.02-	0010055.41	0035530-70-	0010987.58	0003283.64	23
		11 16.22	0007818-19-		0035578-81-		0003235.53	23
		11 17.22	0007794.13- 0007746.02-		0035530.70- 0035530.70-		0003307.70 0003259.59	23 23
		15 59.89	0008251.20-		0040871-13-		0003740.71	23
		16 00.89	0008275 -25-		0040823.02-		0003812.88	23
		16 01.89	0008251.20-		0040774-91-		0003788.82	23
		16 02.89 16 03.69	0008251-20-		0040774.91-		0003788.82	23 23
		16 04.89	0008227 -14- 0008275 - 25-		0040774-91-		0003788.82 0003764.76	23
		52 06.49	0007794-13-		0035530-70-		0003067-14	23
		52 07.49	0007794 - 13-		0035482.59-		0003067-14	23
		52 08-49	0007818.19-		0035434.48-		0003943.08	23
		52 09.49 52 10.49	0007770.08- 0007842.25-		0035386-37- 0035434-48-		0003115.25 0003043.08	23 23
		31 46-68	¢604089.51-		0012653.45-		0001359.16	23
2100	0010 15	31 47.68	0004065.45-	0002646.16	0012845.89-		0001383.22	23
		31 48.68	0004113.57-		0012990-23-		0001431.33	23
		5 31 49.68 5 32 49.18	0004161.68- 0005099.86-		0013134-57- 0017753-32-		0001383.22 0001695.95	23 23
		32 50.18	0005147.97-		0017825.49-		0001695.95	23
		32 51.18	0005196.09-		-0017921-7.1-		0001720.00	23
		34 42.66	0006807-84-		0027880.89-		0002441.68	23
		5 34 43.66 5 36 06.02	0006928•12- 0007770•08-		0027929-01-		0002441.68 0003043.08	23 23
		36 07.02			0035290-14-		0003019.03	23
		38 03-12	0008275.25-	0013206.74	0040726-80-		0003548.26	23
		38 04%12	0008395.53-		0040774.91-		0003596.37	23
		5-40 32 - 15 5-40 33 - 15	0008539 . 87- 000858 7. 98-		0044816.32-		0004173.72 0004101.55	23 23
4220			000000.000					
				ELEN	ENT STRESS			
10 1106	REC PT	RATE 01	11/06/69 CONJUGAT	E STRUCTURÉ	TEST COND 2	•		
				-				
	COND HA		P180221A		P180231A	P180232A	R169241A	GP
		6 40 34.15 6 40 35.15	0008539.87- 0008539.87-		0044768-21-		0004149.66	23
		40 36.15	0008539.87-		0044768-21-		0004197.77 0004197.77	23 23
		45 59.61	0008612.04-		0046355.90-		0004366.16	23
		46 00.61	0008587.98-		0046355.90-		0004438.33	23
		6 46 01.61 5 46 02.61	0008612-04-		0046307-79-		0004390.22	,23
		6 46 03.61	0008563 . 93- 0008587 . 98-		0046307.79- 0046307.79-		0004390.22 0004414.28	23 23
		29 34-86	0008587.98~		2047506-81-		0004654.84	.23
		29 35.86	0008387.98-		0047510.59-	0021451.94	0004654.84	23
		29 36.86	0008612-04-		0047606.81-		0004606.72	23
		5 29 37.86 5 29 38.86	0008587 . 98-		0047510-59-		0004606.72 0004606.72	23 23
		33 04.12		0021169-28	0048809-61-		0004871.34	23
		33 05.12	0008563.93~		0048809-61-		0004943.51	23
		33 06-12 33 07-12	0008612.04~		0048809-61-		0004967.56	23
		33 08.12			0048857.73- 0048869.61-		0004895.40 0004919.45	23 23
		39 31.91	0005220-14-		0018306-61-		0001744.06	23
		39 32.91	0005196.09-	0003993.30	0018378.77-	0004135.67	0001744.06	23
		39 33°91 39 34°91	0005147.97-		0018378.77-		0001744.06	23
		39 35.91	0005220+14 - 0005147 - 97-		0018402.83-		0001768.12 0001792.17	23 23
			,= - 7 2 7 7 7 7 7			,		63

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1D REC PT RATE 1106 400 01	11/06/69 CONJUGATE	STRUCTURE 1	IEST COND 2		4	
TEST COND HR/HN/SEC	R169242A	R169243A	L15626A	L16228A	L 16228B	GP
TEST COND HR/MN/SEC 2000 0000 09 50 06.68 2100 0000 11 19 12.22 2100 0000 11 19 13.32 2100 0000 11 19 15.32 2100 0000 11 19 15.32 2100 0000 11 19 16.32 2110 0000 13 02 50.73 2110 0000 13 02 50.73 2110 0000 13 02 52.73 2110 0000 13 02 52.73 2110 0000 13 02 53.73 2110 0000 13 02 53.73 2110 0000 13 02 54.73 2120 0000 13 07 26.70 2120 0000 13 07 27.70 2120 0000 13 07 28.70 2120 0000 13 07 29.70 2120 0000 13 07 29.70 2120 0000 14 10 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 11 16.22 2130 0000 14 16 00.89 2140 0000 14 16 00.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 16 03.89 2140 0000 14 52 07.49 2131 0000 14 52 07.49 2131 0000 14 52 07.49 2131 0000 14 52 08.49 2131 0000 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 31 49.68 2100 0010 15 32 51.18 2100 0020 15 34 42.66 2100 0030 15 36 07.02 2100 0030 15 36 07.02 2100 0040 15 38 03.15 2150 0000 15 40 32.15 2150 0000 15 40 32.15	R169242A 000006.01 0002896.09 0000920.14 0000896.09 0000920.14 00002531.89 0002580.01 0002555.95 0002580.01 0002555.95 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0004239.87 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0005803.51 0007439.32 0007739.32 0007739.32 00073391.21 00073391.21 0001738.05 0001738.05 0001738.05 0001738.05 0001738.05 0001738.05 0001739.04 0003319.04 0007319.04			116228A 0000072-16- 0000769-78- 0000769-78- 0000769-78- 0000769-78- 0000673-56- 0016791-08- 0016791-08- 0016791-08- 0016791-08- 0016791-08- 0016791-08- 0016791-08- 0031513-35- 0031513-35- 0031513-35- 0031465-24- 0043781-91- 0043781-91- 0043781-91- 0043781-91- 0043781-91- 0043781-91- 0055280-68- 0055280-6	0000024.06 0000793.85 0000769.79 9000793.85 0000745.74 0000721.68 0024104.11 0024104.11 0024104.11 0024104.11 0024080.06 0024104.11 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0046740.81 0054775.58 0074116.54 0074116.55 0074116.55 0074116.55 0074116.56 0074116.56 0074116.56 0074116.56 0074116.56 0074116.56	GP
		ELEM		-	÷	
ID REC PT RATE 1106 400 01	11/06/69 CONJUGATO	STRUCTURE	TEST COND 2			
TEST COND HR/MN/SEC	R169242A			L16226A	L162288	GP
2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 45 59.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 02.61 2155 0000 15 46 03.61 2155 0000 16 29 34.86 2160 0000 16 29 36.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 29 38.86 2160 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 05.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2165 0000 16 33 08.12 2111 0000 16 39 32.91 2111 0000 16 39 33.91 2111 0000 16 39 34.91 2111 0000 16 39 35.91	0010662.82 0010638.77 0010614.71 0010638.77 0011576.95 0011576.95 0011625.06 0011625.06 0011576.95 0002611.61	0018270-53 0018226-42 0018246-43 0019978-51 0019978-51 0019978-51 0019954-45 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-98 0021469-17 0023346-35 0023346-35 0023346-35 0023346-35 0023346-35 0023346-35 0023346-35 0023398-24 0004799-17 0004727-00 0004727-00 0004727-00	0003945.18 0004065.46 0004069.52 0004089.52 0004089.52 0004281.97 0004354.14 0004330.08 0004330.08 0004330.08 0004522.53 0004522.53 0004570.64 0004570.64 0004570.64	00703&7.85- 0074333.03= 0074236.81- 0074236.81- 0074236.81- 0074236.81- 0078278.21- 0078278.21- 0078374.44- 0078374.44- 0078374.44- 0029733.21- 0029733.21- 0029733.21-	0078254.17 0078254.17 0079889.98 0079889.98 0079889.75 0079793.75 0079793.75	24 24 24 24 24 24 24 24 24 24 24 24 24 2

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ID REC PT 1106 400	RATE 01	11/06/69 CONJUGATO	E STRUCTURE	TEST COND 2			
TEST COND HR/	HN/SEC	P1	P2	N/A	N/A	N/A	GP
2000 0000 09	50 06.68	0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0000 11		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0000 11		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25,
2100 0000 11		0000000.00	0000000.00	0000000.00	00000000000	0000000-00	25
2100 0000 11 2100 0000 11		0000000-00	0000000.00	0000000.00	0000000.00	0000000.00	25 25
2110 0000 11		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2110 0000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2110 6000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2110 0000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2110 0000 13 2120 0000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25 25
2120 0000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2120 0000 13		0000000.00	0000000.00	00.00000.00	0000000.00	0000000.00	25
2120 0000 130		0000000.00	0000000.00	00.00000.00	0000000.00	0000000.00	25
2126 0000 13		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2130 0000 14 2130 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00 0000003.00	25 25
2130 0000 14			0000000.00	0000000.00	0000000.00	0000000.00	25
2130 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000-00	25
2130 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2140 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25 25
2140 0000 14 2140 0000 14		00.000000	0000000.00	0000000.00	0000000.00	0000000.00	25
2140 0000 14		000000000	0000000.00	0000000000	0000000.00	0000000.00	25
2140 0000 14		0000000.00	0000000.00	0000000.00	0000000000	0000000-00	25
2140 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	000,0000.00	25
2131 0000 14			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2131 0000 14 2131 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2131 0000 14			0000000.00	00.0000000	0000000.00	0000000.00	25
2131, 0000 14		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0010 15			0000000.00	0000000.00	0000000.00	0000000	25
2100 0010 15			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2100 0010 15 2100 0010 15			0000000.00	000000000	0000000000	0000000	25
2100 0010 15	32 49.18		0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0010 15		0000000.00	0000000.00	2000000.00	0000000.00	0000000.00	25
2100 0610 15			0000000.00	0000000-00	0000000.00	0000000.00	25
2100 0020 15 2100 0020 15			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2100 0030 15			0000000.00	000000000	0000000.00	0000000.00	25
2100 0030 15			0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0040 15	38 03.12		0000000.00	0000000.00	0000000.00	0000000.00	25
2100 0040 15			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2150 0000 15 2150 0000 15	40 32.15		0000000-00	000000200	0000000.00	0000000.00	25
7130 0000 13	10 33013	***************************************	000000000	***************************************			
			EĻEF	ENT STRESS			
ID REC PT	RATE	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
1206 400	01					•	
TEST COND HR	MM/SEC	91	92	N/A	N/A·	H/A	СÞ
2150 0000 15			0000000.00	0000000.00	0000000.00	0000000.00	د 5
2150 0000 15			0000000.00	0000000.00	0000000.00	0000000.00	25
2150 0000 15 2155 0000 15		0000000.00	0000000.00	0000000.00	0000000.00	0000000.00	25 25
2155 0000 15			0000000.00	0000000	0000000.00	0000000.00	25
2155 0000 15	46 01.61	000000000	0000000.00	0000000.00	0000000.00	0000000.00	25
2155 0000 15			0000000000	0000000.00	0000000.00	0000000.00	25
2155 0000 15			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2160 0000 16 2160 0000 16			0000000.00	0000000.00	0000000.00	0000000.00	25 25
2160 0000 16			0000000.00	0000000.00	0000000-00	0000000.00	25
2160 0000 16	29 37.86	0000000.00	0000000.00	0000000.00	00.000000	0000000.00	25
2160 0000 16			00000000.00	0000000.00	0000000,00	000000000	25
2165 0000 16 2165 0000 16			0000000.00	G000000.00	0000000.00	0000000.00	25 25
2165 0000 16			0000000.00	0000000000	0000000.00	0000000.00	25
2165 0000 16	33 07.12	0000000-00	0000000.00	0000000.00	0000000.00	0000000.00	25
2165 0000 16			0000000.00	00000000.00	0000000.00	0000000.00	25
2111 0000 16		00.000000	0000000.00	0000000.00	00.0000000	0000000000	25 25
2111 0000 16 2111 0000 16		0000000.00	0000000.00	0000000.00	0000000.00	000000.00	25 25
2111 0000 16		0000000.00	0000000.00	. 00000000	00000000.00	0000000.00	25
2111,0000 16		0000000-00	0000000.00	000000000	0000000.00	0000000.00	25

R1692438

R169242B

1D REC PT RATE 11/06/69 CUNJUGATE STRUCTURE TEST COND 2 1106 400 01

R1692418

TEST COND HR/MN/SEC

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2000-0000 09 50 06.68	0000012.03	0000054.12-	-00.300000	0000018.03-	0000012-02-	31
2100 0000 11 19 12.32		0002423.64	0002592.03	0000872.03	0001262.94	31
2100 0000 11 19 13.32				0000847.97	0001238.68	31
		0002423.64	0002592.03			
2100 0000 11 19 14.32		0002447.70	0002616.09	0000896.09	0001238.88	31
2100 0000 11 19 15.32		0002447.70	0002567498	0000896.09	0001214.83	31
2100 0000 11 19 16.32	0001262.94	0002399.59	0002616.09	0000947.97	0001238.88	31
2110 0000 13 02 50.73	0002393.57	0005286.31	0006440.99	0001184.76	0002970:92	31
2110 0000 13 02 51.73		0005262.25	0006392.88	0001160.70	0002970.92	31
2110 0000 13 02 52.73		0005334.42	0006348-83	0001184.76	0002970.92	31
2110-0000 13 02 53.73		0005262.25	0006368.83	0001207 81	0003019.03	31.
2110 0000 13 02 54.73		0005310.36	0006440.99	0001160.70	0002994.97	31
2120 0000 13 07 26.70		0008028.69	0010217.79	0001810.23	0004847.28	31
2120-0000 13 07 27.70	0003115.25	0008028.69	0010193.73	0001762.10	0004799.17	31
2120 0000 13 07 28.70	0003091-20	0008076.60	0010217.79	0001786.16	0004847.28	31
2120 0000 13 07 29.70	0003139.31	0008004.63	0010169.67	0001834.27	0004847.28	31
2120 0000 13 07 30.70		0008004-63	0010193.73	0001810.21	0004847.28	31
2130 0000 14 11 14.22		0910338.07	0013705.91	0002122.94	0006603.37	31
					0006651.48	31
2130 0000 14 11 15.22		0010386.18	0013705.91	0002219.17		
2130 0000 14 11 16.22		0010362.12	0,013681.85	0002147.00	0008555-23	31
2130 0000 14 11 17.22	0003768-62	0010410.23	0013705.91	0002147.00	0006627.43	31
2130 0000 14 11 18.22	0003836.93	0010410.23	0013681-85	0002171.05	0006603.37	31
2140 6000 14 15 59.89	0004294-00	0012719.61	0017362-42	0002676.23	0008455-68	31
2140 0000 14 16 00-89	0004390-22	0012719.61	0017290-25	0002724.34	0008455-68	31
2140 0000 14 16 01.89				0002748-40	0008431-63	31
		0012719.61	GO17338.36			
2140 0000 14 16 02-89		0012719.61	0017314.31	0002676.23	0008383.52	31
2140 0000 14 16 03-89		0012743-67	0017314.31	0002700-29	0008431-63	31
2140 0000 14 16 04-89	0004390.22	0012743.67	0017314.31	0002676.23	0008455-68	31
2131 0000 14 52 06.49	0003668.54	0010217.79	0013778.07	0001305.04	0005857-64	31
2131 0000 14 52 07.49	0003668.54	0010265.90	0013802-13	0001305-04	0005581.69	31
2131 0000 14 52 08.49	0003644-48	0010289.95	0013729.96	0001305-04	0005809-52	31
2131 0000 14 52 09.49		0010265.90	0013778.07	0001280.98	0005857-64	31
2131 0000 14 52 10.49						31
	0003668.54	0010265.90	0013802-13	0001280-98	0005857-64	
2100 0010 15 31 46.68	0002008-68	0003963.23	0004684-91	0000126-29	0001671-89	31
2100 0010 15 31 47-68	000,2056.79	3004035.39	0004829+24	0000174-41	0001671.89	31
2100-0010 15 31 48.48	0002032.73	0003987.28	0004829.24	0000126-29	0001720-00	31
2100 0010 15 31 49-68	0002008-68	0004059.45	0004829-24	0000174.41	0001768-12	31
2100 0010 15 32 49.18	0002297.35	0005117.91	0006296.66	0000366.85	0002369.52	31
2100 0010 15 32 50.18	0002345.46	0005166.03	0006344.77	0000342-80	0002393.57	31
C100 0010 13 35 30010		0005190-08		0000390-91	0002369.52	31
2100 0010 15 22 51.1P						
2100 0010 15 32 51-18	0002345.46		0006296.66			
2100 0020 15 34 42-66	0003015-93	0007740.02	0010001.28	0000872.03	0004053-44	31
2100 0020 15 34 42.66 2100 0020 15 34 43.66	0003019.03 0003019.03	0007740.02 0007740.02	0010001.28 6009977.23	0000872.03 0000823.92	0004053-44 0004053-44	31 31
2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0030 15 36 06.02	0003015-93	0007740.02	0010001.28	0000872.03	0004053-44 0004053-44 0005833-56	31 31 31
2100 0020 15 34 42.66 2100 0020 15 34 43.66	0003019.03 0003019.03	0007740.02 0007740.02	0010001.28 6009977.23	0000872.03 0000823.92	0004053-44 0004053-44	31 31
2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02	0003019.03 0003019.03 0003572.32 0003644.48	0007740.02 0007740.02 0010241.84 0010189.67	0010001.78 0009977.23 0013681.85 0013729.96	0000872.03 0000823.92 0001305.04 0001256.93	0004053-44 0004053-44 0005833-56	31 31 31
2100 0020 15 34 42-66 2100 0020 15 34 43-66 2100 0030 15 36 06-02 2100 0030 15 36 07-02 2100 0040 15 38 03-12	0003019,03 0003019,03 0003572,32 0003644,48 0004197,77	0007740.02 0007740.02 0010241.84 0010159.67 0012671.50	0010001.28 0009977.23 0013681.85 0013729.96 0017338.36	0000872.03 0000823.92 0001305.04 0001256.93 0001810.21	0004053-44 0004053-44 0005833-58 -0005761-41 0007661-84	31 31 31 31 31
2100 0020 15 34 42-66 2100 0020 15 34 43-66 2100 0030 15 36 06-02 2100 0030 15 36 07-02 2100 0040 15 38 03-12 2100 0040 15 38 04-12	0003019.03 0003019.03 0003572.32 0003644.48 0004197477 0004221.83	0007740.02 0007740.02 0010241.84 0010189.67 0012671.50 0012719.61	0010001.28 0009977.23 0013681.85 0013729.96 0017338.36 0017362.42	0000872.03 0000823.92 0001305.04 0001256.93 0001810.21 0001810.21	0004053-44 0004053-44 0005833-58 -0005761-41 0007461-84	31 31 31 31 31 31
2100 0020 15 34 42-66 2100 0020 15 34 43-66 2100 0030 15 36 06-02 2100 0030 15 36 07-02 2100 0040 15 38 03-12 2100 0040 15 38 04-12 2150 0000 15 40 32-15	0003019.03 0603019.03 0003572.32 0003644.48 0004197477 0004221.83 0004775.12	0007740.02 0007740.02 0010241.84 0010189.67 0012671.50 0012719.61 0015101.15	0010001.28 6009977.23 0013681.85 0013729.96 0017338.36 0017362.42 0021115.15	0000872.03 0000823.92 0001305.04 0001256.93 0001810.21 0001810.21 0002339.45	0004053-44 0004053-44 0005833-58 0005761-41 0007461-84 0007661-84 0009490-09	31 31 31 31 31 31 31
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2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 04.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15 TEST COND HR/HN/SEC 2150 0000 15 40 34.15 2150 0000 15 40 34.15 2150 0000 15 40 34.15 2150 0000 15 40 36.15 2150 0000 15 40 36.15 2155 0000 15 40 00.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 00.61 2155 0000 15 46 03.61 2160 0000 16 29 34.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 39 37.86 2165 0000 16 33 04.12 2165 0000 16 33 06.12 2165 0000 16 33 07.12 2165 0000 16 33 07.12 2165 0000 16 39 30.12 2111 0000 16 39 32.91 2111 0000 16 39 32.91	0003019.03 0003019.03 0003572-32 0003644-48 0004197.77 0004221.83 0004775.12 0004799.17 11/06/69 CONJUGATE R169241B 0004823-23 0004799.17 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 0005787.36 0005787.36 0005787.36	0007740.02 0007740.02 0007740.02 0010241.84 0010149.67 0012671.50 0012719.61 0015101.15 0015125.21 ELEM STRUCTURE R1692428 0015077.10 0015125.27 0016376.12 0017362.42 0017410.53 0017362.42 0018685.50 0018709.55 0018709.55	0010001.28 0009977.23 0013681.85 0013789.96 0017338.36 0017362.42 0021115.15 0021091.10 ENT STRESS TEST COND 2 R169243B 0021115.15 0021145.27 0021115.15 0022145.27 0022115.35 0022919.35 0022919.35 0022919.35 0022895.30 0022895.30 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0024482.99 0026431.53 0026431.53 0026431.53 0026431.53 0026441.53 0026440.99 0006440.99	0000872.03 0000823.92 0001305.04 0001256.93 0001810.21 0002339.45 0002243.22 0002243.22 0002243.22 00022597.84 0002507.84 0002507.84 0002507.84 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002700.29 0002700.29 0002700.29 0002700.29 0002700.29 0002700.29 0002700.29 0002700.29	0004053-44 0004053-44 0005833-58 0005761-41 0007661-84 0009490-09 0009562-26 0009562-26 0009514-15 0010524-50 0010524-50 0010524-50 0010524-50 0011342-40 0011414-57 0011390-52 0011390-52 001124097-09 0012473-04 002537-91 0002537-91 0002489-80	31 31 31 31 31 31 31 31 31 31 31 31 31 3
2100 0020 15 34 42.66 2100 0020 15 34 43.66 2100 0030 15 36 06.02 2100 0030 15 36 07.02 2100 0040 15 38 03.12 2100 0040 15 38 03.12 2100 0040 15 38 03.12 2150 0000 15 40 32.15 2150 0000 15 40 33.15 TEST COND HR/MN/SEC 2150 0000 15 40 34.15 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2150 0000 15 40 35.15 2150 0000 15 46 03.61 2155 0000 15 46 01.61 2155 0000 15 46 01.61 2155 0000 15 46 01.61 2155 0000 15 46 01.61 2155 0000 15 46 01.61 2155 0000 16 29 34.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 29 37.86 2160 0000 16 30 36.12 2165 0000 16 33 04.12 2165 0000 16 33 04.12 2165 0000 16 33 04.12 2165 0000 16 33 04.12 2165 0000 16 33 04.12 2165 0000 16 33 06.12 2165 0000 16 33 08.12 2111 0000 16 39 33.91 2111 0000 16 39 33.91 2111 0000 16 39 33.91	0003019.03 0003019.03 0003572.32 0003644.48 0004197177 0004221.83 0004775.12 0004799.17 11/06/69 CONJUGATE R169241B 0004847.28 0004823.23 0004799.17 0005087.84 0005087.84 0005087.84 0005087.84 0005087.84 000539.73 0005087.84 0005376.52 0005400.57 0005352.46 000589.24 0005713.30 0005689.24 0005789.24 0005789.24	0007740.02 0007740.02 0007740.02 0010241.84 0010169.67 0012719.61 0015101.15 0015125.21 ELEM R1692428 0015077.10 0015125.21 0016376.12 0016376.12 0016376.12 0016376.12 0017362.42 0017410.53 0017362.42 0017410.53 0017410.53 0018709.55 0018709.55 0018709.55 0018709.55	0010001.28 0009977.23 0013681.85 0013789.96 0017338.36 0017338.36 0017362.42 0021115.15 0021091.10 ENT STRESS TEST COND 2 R1692438 0021115.15 0021115.15 0021115.15 0021115.15 0021115.15 0021115.15 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 0022919.35 00224482.99 0024482.99 0024482.99 0024482.99 0024483.94 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53 0026431.53	0000872.03 0000823.92 0001305.04 0001256.93 0001810.21 0002339.45 0002243.22 0002243.22 0002507.84 0002507.89 0002507.89 0002507.89 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0002772.45 0003085.18 0003085.18 0003085.18 0003085.18 0003085.18 0003085.18 0003085.18 0003085.18	0004053-44 0004053-44 0005833-58 0005761-41 0007661-84 0009490-09 0009562-26 0009562-26 0009562-26 0009514-15 0010524-50 0010524-50 0010524-50 0010524-50 0011342-40 0011342-40 0011342-40 0011342-40 0011342-90 0011342-90 0011342-90 0011342-90 0011342-90 0011342-90 0012473-04 002537-91 0002537-91 0002537-91	31 31 31 31 31 31 31 31 31 31 31 31 31 3

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ID 1106	REC P		ATE 01	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
TEST	COND	HR/M	N/SEC	R349243A	R3492418	R349242B	R349243B	L15625B1	GP
^ 2000	0000	09 5	0 06.68	0000030.06-	0000000-00	0.000006+00-	0000072-16-	0000024.05-	32
			9 12-32	0001726.02	0000529.23	0001196.79	0002309.38	0001683.91-	32
			9 13.32	0001750.07	0000601.40	0001220.84	0002285.32	0001683.91-	32
			9 14.32 9 15.32	0001774.13	0000553.29	0001196-79	0002333.43	0001659.85-	32
			9 16.32	0001750.07 0001701.96	0000577.34	0001220.84 0001172.73	0002357.49	0001635.80-	32 32
			2 50.73	0004636-79	0000355-25	000117217	0006206-45	0003632.45-	32
			2 51.73	0004660.85	0000390.07	0003217.49	0006230-50	0003608.39-	32
			2 52.73	0004636.79	0000866.02	0003313.71	0006230.50	0003632.45-	32
			2 53.73	0004636.79	0000890.07	0003217-49	0006230.50	0003608.39~	32
			2 54.73	0004636579	0000890.07	0003217.49	0006158.34	0003656.50-	32
			7 26.70	0007788 . 13 0007764 . 07	0001178.74	0005430-64	0010103.52	0004883.36-	32
			7 28.70	0007812-19	0001178.74	0005478.75 0005406.59	0010151.63	0004883.36-	32 32
			7 29.70	0007812.19	0001202.80	0005406.59	0010079.46	0004859,30-	32
			7 30.70	0007812-19	0001202.80	0005358-47	0010103.52	0004931-47-	32
			1 14.22	0010867.30	0001515.53	0007523.51	0013663.81	0005580.98-	32
			1 15.22	0010867.30	0001563.64	0007523.51	0013639.75	0005556.93~	32
			1 16-22	0010891.35	0001515.53	0007475.40	0013663.81	0005629.09-	32
			1 17-22	0010867.30	0001587.70 0001635.81	0007451-35 0007427-29	0013567.58 0013663.81	0005580.98-	32 33
			5 59.89	0010795•1 <i>3.</i> 0014066•75	0001852.31	0009568.27	0017272.21	0005027-05-	32 32
			6 00.89	0014090-80	0001852.31	0009496-11	0017272.21	0006086.16-	32
			6 01.89	0014042.69	0001876.37	0009664.50	0017224.10	0005989.93-	32
			6 02.89	0014018.63	0001876.37	0009568-27	0017248.15	0006110.21-	32
			6 03.89	0014066.75	0001852.31	0009544-22	0017224.10	0006013.99-	32
			6 04-89	0013994.58	0001876.37	0009544-22	0017200.04	0006038.05-	32
			2 06.49	0011131.91 0011035.69	0000721.68	0006705.61	0014024.65 0014048.70	0005605.04-	32 32
			2 08.49	0011011-63	0000721.68	0006729.67	0014024.65	0005701-26-	32
			2 09.49		0000745.74	0006729.67	0013976.54	0005556.93-	32
			2 10.49	0011083.80	0000697.62	0006705-61	0014048.70	0005605-04-	32
			\$ 46.28		0000288-67	0001798-19	0004642.81	0002886.71~	32
			1 47-68		0000240.56	0001894-41	0004714.98	0002886.71-	32
			1 48.68		0000240-56	0001870-35	0004763.09	0002910.77-	32
			11 49.68 12 49.18		0000240.! 000028846 <i>!</i>	0001894.41 0002688.26	0004737.14	0002885-71-	32 32
			2 50.18	2004660-85	0000312.73	0002616.09	0006350-78	0003632.45~	32
			2 51-18	0004733.02	0000288.67	0002664.20	0006398.90	0003656-50-	32
			42.66	0007764.07	0000457.06	0004660.85	0010199.74	0004883.36-	32
			4 43.66		0000529.23	0004636.79	0010175.69	0004907.41-	32
			6 06.02		0000769.79	0006657-50	0013952-48	0005677-21-	32
			6 07.02	0011011.63	0000745.74	0006657-50	0013976.54	0005605.04-	32
			8 03.12 8 04.12	0014355.42 0014331.36	0001106.58 0001034.41	0008774.43 0008822.54	0017705.22 0017705.22	0006110.21-	32 32
			0 32.15		0001347.14	0010987.58	0021433.90	0006350.77-	32
2150	0000	15 4	0 33.15	0017795.43	0001371.19	0010891.35	0021457.95	0006350.77-	32
					ELEM	ENT STRESS			
ID 1106	REC F		ATE 01	11/06/69 CONJUGAT	E STRUCTURE	TEST COND 2			
1521	COND	HR/M	IN/SEC	R349243A	R349241B	R349242B	R349243B	L15625B1	GP
			0 34-15		0001371.19	0010987.58	0021457.95	0006350.77-	32
			0 35.15	0017795.43	0001274.97	0010939-47	0021433.90	0006374.83-	32
			0 36.15 5 59.61	0017843.54 0019503.40	0001347-14	0010987-58	0021530-12	0006350-77-	32
			6 00.61	0019455.29	0001563.64	001202¿•99 0011997•93	0023286.21 0023334.32	0006471-05-	32
			6 01.61	0019533.40	0001303.04	0012046.04	0023362.15	0006447.00-	32 32
			6 02.61	0019479-35	0001515.53	0012021.99	0023238-10	0006422-94-	32
			6 03-61	-0,019503-40	0001539.58	0011973.487	0023169-98	0005447.00-	32
			9 34.96	0020994-87	0001611.75	0012960.17	0024849.85	0006495.11-	32
			9 35.86 9 36.86	0021018.93 0021018.93	0001659.86	0013008-28	0024681.46	0006495.11-	32
			9 37.86	0021018-93	0001683.92	0012960.17 0012936.11	0024681.46 0024849.85	0006543.22-	32
			9 38.86	0020970.82	0001635.81	0012960-17	0024681.46	0006519.17-	32 32
2365	0000	16 3	3 04.12	0022943.41		0014042.69	0026726.22	0006543.22-	32
			3 05.12	0022895.30	0001900.42	0014018.63	0026822.44	0006615.39~	32
			3 06.12 3 07.12	0022895.30	0001876.37	0014042-69	0026622.44	0006567-28-	32
			3 08.12	0022895.30 0022919.35	0001828.26	0013970.52 0014042.69	0026726.22	0006543-22-	32
			8 31.91	0004925.47	0001900.42	0002616.09	0026726.22	0006591,33-	32 32
			9 32.91	0004829.24	0000288-67	0002640-15	0906543.23	0003680-56-	32 32
2111	0000	ž6 3	9 33.91	0004949.52	0000336.78	0002616.09	0006495.12	0003680.56-	32
			9 34.91	0004677-35	0000288.67	0002616.09	0006495.12	0003680.56-	32
2111	nhnn	10 Ş	9 35.91	0004925.47	0000312.73	0002542.03	0006495.12	0003680-56-	32

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TEST COND HR	'PN/SEC	£1562582	L3362581	L3362582	£15626B	L33626A	GP
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Security Classification DOCUMENT CONTROL DATA - R&D
(Society elevelication of title body of abstract and indexing enturellon must, be entered when the overall report to eleveliad) 1 OHIGINATEN O ACTIVITY (Consume author) 28 REPORT SECURITY CLASSIFICATION Unclassified Mertin Marietta Corporation P.O. Box 179, Denver, Colorado, 80201 I DEPORT TITLE Verification Testing of Conjugate Structure 4 DESCRIPTIVE NOTES (Type of report and inclusive dates) Final Report (Preliminary) 5 AUTHOR(5) (Last name, liret name, initial) B. Dale Thompson & REPORT DATE 74 TOTAL NO OF PAGES 75 HO OF BEFE April 1970 PA ORIGINATOR'S REPORT HUMBENS) BR CONTRACT OR GRANT NO F04611-68-C-0055 MC MCR-70-62 & PAOJECT NO \$5. OTHER REPORT NC(S) (Any other numbers that may be uselfined this report) 10 AVAILABILITY/LIMITATION NOTICES 12 SPONSORING MILITARY ACTIVITY 11 SUPPLEMENTARY HOTES Air Force Rocket Propulsion Laboratory, Edwards Air Force Base, California

11 ABSTRACT The conjugate structure consisted of a forward skirt, forward dome, forward harrel, common dome, aft barrel, aft cone and an aft skirt. The forward and aft barrel sections were made of titanium roll diffusion bonded truss core panels. The conjugate structure was delivered to the Martin Marietta Corporation, Denver Division for structural testing to demonstrate its ability to withstand design condictions by subjection to limit loads and limit internal tank pressures. Martin Marietta Corporation Receiving Inspection identified structural discrepancies which brought about a change in the test contract. Instead of the originally planned three test conditions, the conjugate structure was subjected to a detailed inspection and a structural repair operation, and the test portion was modified to include five test conditions. The first two of these test conditions were completed. A visual and radiographic inspection, made after the completion of the second test, identified seven areas of structural failures. One failure, a 42.5 in. long crack in the inner weld of the aft tank barrel to the lower Y-ring circumferential weld joint, was severe enough to prohibit continued testing. The tank barrel sections, made up of roll-diffusion-bonded-truss-core, successfully carried the design limit loads and internal tank pressures associated with the two test conditions. failure analysis investigations concluded that the failure point of the 42.5 in. long crack was approximately at its center. It was a brittle failure resulting from the presence of an oxygen-rich, stabilized alpha layer on the parent metal adjatent to the wold, supplemented by residual restriant and mismatch in the area. It was also concluded that the stabilized alpha layer was present before the welding was accomplished.

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